# Appendix B Field investigations

**B1 Borehole Terminology**

**B2 Borehole Logs**

Tonkin+Taylor

# Engineering log terminology

## General

Soil and rock descriptions follow the "Guidelines for the field classification and description of soil and rock for engineering purposes" by the New Zealand Geotechnical Society (2005). Refer to this document for methods of field determination.

### Water




### Core recovery

Expressed as percentage of the length of the core run recovered.

### Drilling method/casing

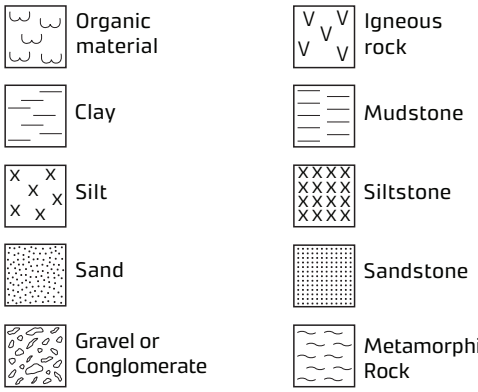
**Common types:**

| | |
|---|---|
| **OB** | Open barrel |
| **W** | Wash |
| **HQ3** | HQ triple tube |
| **PQ3** | PQ triple tube |
| **HSA** | Hollow Stem Auger |
| **WS** | Window Sampler |
| **HA** | Hand Auger |
| **HFS** | High Frequency Sonic Drilling |
| **LFS** | Low Frequency Sonic Drilling |

### Graphic logs

The graphic log shows soil and rock types. The defect log indicates the location, orientation and abundance of defects of all types.

**Typical material symbols:**



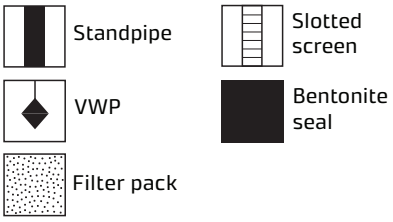

### Tests

- **N=22:**SPT uncorrected blow count for 300 mm
- **75/12:**Undrained shear strength (peak /residual as measured by field vane.

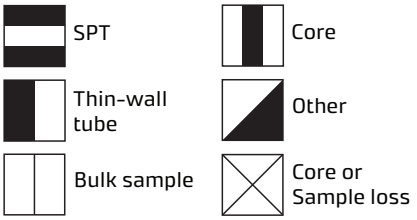
**Laboratory test(s) carried out:**

| | |
|---|---|
| **PMT** | Pressuremeter test |
| **LT** | Lugeon test |
| **LV** | Laboratory vane |
| **AL** | Atterburg limits |
| **UU** | Undrained triaxial |
| **PSD** | Particle size distribution |
| **c' Ø'** | Effective stress |
| **CONS** | Consolidation |
| **DS** | Direct shear |
| **COMP** | Compaction |
| **UCS** | Unconfined compression |
| **$IS_{50}$** | Point load |

### Installation type




### Sample type




## Soil description

### Moisture content

| | |
|---|---|
| **D** | Dry, looks and feels dry |
| **M** | Moist, no free water on hand when remoulding |
| **W** | Wet, free water on hand when remoulding |
| **S** | Saturated, free water present on sample |

### Consistency/undrained shear strength

| | | **$S_u$(kPa)** |
|---|---|---|
| **VS** | Very soft | < 12 |
| **S** | Soft | 12 to 25 |
| **F** | Firm | 25 to 50 |
| **St** | Stiff | 50 to 100 |
| **VSt** | Very stiff | 100 to 200 |
| **H** | Hard | > 200 |

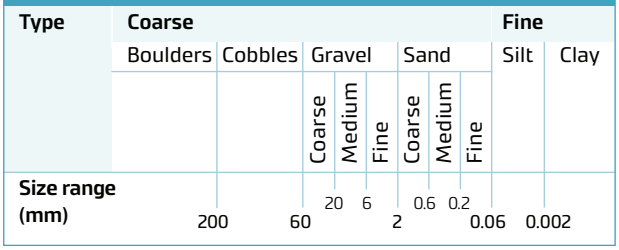
### Density index

| | | **SPT(N) - uncorrected** |
|---|---|---|
| **VL** | Very loose | 0 to 4 |
| **L** | Loose | 4 to 10 |
| **MD** | Medium dense | 10 to 30 |
| **D** | Dense | 30 to 50 |
| **VD** | Very dense | > 50 |

### Proportional terms definition (Coarse soils)

| **Fraction** | **Term** | **% of soil mass** | **Example** |
|---|---|---|---|
| Major | (UPPER CASE) | Major constituent | GRAVEL |
| Subordinate | (lower case) | > 20 | Sandy |
| Minor | with some...<br>with minor... | 12 - 20<br>5 - 12 | with some sand<br>with minor sand |
| | with trace of...<br>(or slightly)... | < 5 | with trace of sand<br>(slightly sandy) |

### Grain size criteria



Tonkin+Taylor

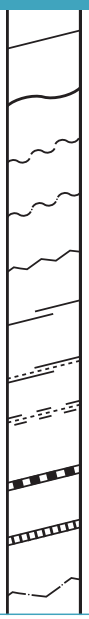
# Engineering log terminology

## Rock description



### Signifcant defects

| | |
|---|---|
| **B** | Bedding |
| **J** | Joint |
| **Sc** | Schistosity |
| **Cl** | Cleavage |
| **BZ** | Broken zone/crushed zone |
| **F** | Fault |
| **Fg** | Fault with gouge |
| **SZ** | Shear zone |
| **Iz** | Infilled seam |
| **XD** | Extremely weathered seam |
| **DD** | Drilling - induced defect |



### Weathering

| | |
|---|---|
| **UW** | Unweathered |
| **SW** | Slightly weathered |
| **MW** | Moderately weathered |
| **HW** | Highly weathered |
| **CW** | Completely weathered |
| **RS** | Residual soil |

### Defect shape

| | |
|---|---|
| **ST** | Stepped |
| **UN** | Undulating |
| **PL** | Planar |

### Roughness of defect surface

| | |
|---|---|
| **R** | Rough |
| **SM** | Smooth |
| **SL** | Slickensided |

### Field strength

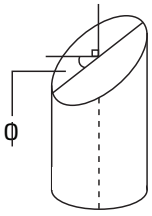
| | | UCS (MPa) | $I_{S(50)}$ (MPa) |
|---|---|---|---|
| **EW** | Extremely weak | < 1 | N/A |
| **VW** | Very weak | 1 - 5 | N/A |
| **W** | Weak | 5 - 20 | N/A |
| **MS** | Moderately strong | 20 - 50 | 1 - 2 |
| **S** | Strong | 50 - 100 | 2 - 5 |
| **VS** | Very strong | 100 - 250 | 5 - 10 |
| **ES** | Extremely strong | > 250 | > 10 |

### Defect coding

Type
Angle (perpendicular to core axis)
Infilling description (as per soil description)

**J 60˚, PL, SL, T, CV, STIFF GREEN CLAY**

Infilling/coating type
Aperture
Roughness
Shape




**Defect Orientation:** for vertical unoriented boreholes defect orientation is measured normal to core axis e.g horizontal = 0˚(see diagram). For angled boreholes defect orientation is measured relative to core axis e.g parallel to core axis = 0˚.

### Aperture

| | | Aperture (mm) |
|---|---|---|
| **T** | Tight | nil |
| **VN** | Very narrow | 0 - 2 |
| **N** | Narrow | 2 - 6 |
| **MN** | Moderately narrow | 6 - 20 |
| **MW** | Moderately wide | 20 - 60 |
| **W** | Wide | 60 - 200 |
| **VW** | Very wide | > 200 |

### Infillings and coatings

| | | |
|---|---|---|
| **CG** | Clay gouge | Joints have openings between opposing faces of intact rock substance in excess of 1 mm filled with clay gouge. Clay is generally described in terms of soil properties. |
| **CV** | Clay veneers | Joints contain clay coating whose maximum thickness does not exceed 1 mm. Note: Describe clay in terms of soil properties. |
| **PL** | Penetrative limonite | Joint traces are marked in terms of well defined zones of slightly to moderately weathered ferruginised rock-substance within the adjacent rock. |
| **FeSt** | Limonite stained | Joint surfaces are stained or coated with limonite, although the rock substance immediately adjacent to the joints is fresh. |
| **CT, SC** | Coated | Joints exhibit coatings other than clay or limonite, e.g. Carbonate (CT) or Silica (SC). |
| **CL, CS, CC** | Cemented | Joints are cemented with limonite (CL), Silica (CS), or Carbonates (CC). |
| **CN** | Clean | Joint surface show no trace of clay, limonite, or other coatings. |

### Spacing

| Term | Spacing |
|---|---|
| Very wide | > 2 m |
| Wide | 0.6 - 2 m |
| Moderately wide | 200 - 600 mm |
| Close | 60 - 200 mm |
| Very close | 20 - 60 mm |
| Extremely close | > 20 mm |

### Excavator penetration

| | |
|---|---|
| Easy | 1 |
| Moderate | 2 |
| Difficult | 3 |

**RQD:** Rock Quality Designation - percentage of core run consisting of sound rock longer than 10 cm.

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH02

SHEET: 1 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Main market

CO-ORDINATES: 168.31394600° (WGS84) -17.74074800°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.80m
R.L. COLLAR: 1.80m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 21/01/2026
FINISH DATE: 22/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reclamation Fill | *0.00m:* Concrete pavement. [RECLAMATION FILL] | | | | | | | | | | | | | | | | |
| | *0.05m:* Sandy SILT; brown. Soft to firm, moist, low plasticity; sand, fine to medium. | | | | | | | | | | | | | | | | |
| | *0.20m:* Sandy fine to coarse GRAVEL; brownish black and white. Loosely packed, moist, well graded. Gravel, angular, coral; sand, fine to coarse. | | | | | | | | | | | | | | | | |
| | *0.60m:* CORE LOSS - Suspect washed out. | | | HQTT | 40 | | | | | | | | | | | | |
| | *1.50m:* Silty fine to medium GRAVEL, some sand; greyish brown. Medium dense, moist, well graded. Gravel, sub-angular, coral. | | | SPT | 89 | 3/4 // 2/3/3/3 N=11 | | | | | | | *1.50 - 1.95m:* PSD - 12% gravel, 62% sand and 26% fines | | | | |
| | *1.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 33 | | | | | | | | | | | | |
| Peri-reef Deposits | *2.65m:* Fine to coarse GRAVEL, minor sand; grey and brownish white. Medium dense, moist, well graded. Gravel, sub-angular, coral. [PERI-REEF DEPOSITS] | | | | | | | | | | | | | | | | |
| | *3.00m:* Silty fine to medium SAND; dark grey. Medium dense, moist, well graded. | | | SPT | 89 | 4/4 // 3/4/4/4 N=15 | | | | | | | *3.00 - 3.45m:* PSD - 43% gravel, 36% sand and 21% fines | | | | |
| | *3.10m:* Sandy fine to coarse GRAVEL, some silt; brownish white. Medium dense, moist, well graded. Gravel, sub-angular, coral. | | | | | | | | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 19 | | | | | | | | | | | | |
| | *4.30m:* Sandy fine to coarse GRAVEL, some silt; brownish white. Loose, moist, poorly graded. Gravel, sub-angular, coral. | | | SPT | 67 | 4/3 // 3/2/2/2 N=9 | | | | | | | | | | | |
| | *4.30 - 4.50m:* Sand and silt washed out. | | | | | | | | | | | | | | | | |
| | *4.92m:* CORE LOSS - Suspect washed out. | | | HQTT | 19 | | | | | | | | | | | | |
| | *5.80m:* Fine to coarse GRAVEL, some silt and some sand; brownish white. Medium dense, wet, poorly graded. Gravel, sub-angular, coral. | | | SPT | 67 | 3/1 // 2/3/3/3 N=11 | | | | | | | | | | | |
| | *5.80 - 5.90m:* Sand and silt washed out. | | | | | | | | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 19 | | | | | | | | | | | | |
| | *7.30m:* Silty fine to coarse SAND, some gravel; brownish white. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, coral. | | | SPT | 78 | 2/2 // 3/5/3/3 N=14 | | | | | | | *7.50 - 7.95m:* PSD - 24% gravel, 42% sand and 34% fines | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 10 | | | | | | | | | | | | Box 0.00-7.95m |
| | *8.90m:* Sandy fine to medium GRAVEL, some silt; light brown. Loose, moist, well graded. Gravel, angular, coral. | | | SPT | 78 | 2/2 // 2/1/3/3 N=9 | | | | | | | *9.00 - 9.45m:* PSD - 36% gravel, 32% sand and 32% fines | | | | |
| | *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 14 | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 25 50 75 — 23/01/2026

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and tremie pipe were installed with the flush toby at 8:30 am on 23/01/26. Grouting of the installation was subsequently completed on 24/01/26 and 26/01/26.

Hole Depth 30.1m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:05 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH02

SHEET: 2 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Main market

CO-ORDINATES: 168.31394600° (WGS84) -17.74074800°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.80m
R.L. COLLAR: 1.80m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 21/01/2026
FINISH DATE: 22/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peri-reef Deposits | [CONT] *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 14 | | -9 | 11 | | | | | | | | | |
| | *10.35m:* Sandy fine to coarse GRAVEL, some silt; brownish white. Medium dense, moist, poorly graded. Gravel, angular, coral. | | | SPT | 100 | 5/5// 7/10/13/16 **N=46** | | | | | | | | | | | |
| | *10.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 57 | | -10 | 12 | | | | | | | | | |
| | *11.40m:* COBBLES, some sand and some gravel; white. Medium dense, moist, poorly graded. Cobbles, up to 120mm, angular, coral. | | | | | | | | | | | | | | | | |
| | *12.00m:* Sandy fine to coarse GRAVEL, some silt; brownish white. Medium dense, moist, well graded. Gravel, sub-angular, coral. | | | SPT | 67 | 4/2// 4/8/5/4 **N=21** | | | | | | | | | | | |
| | *12.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 10 | | -11 | 13 | | | | | | | | | |
| | *13.40m:* Silty fine to coarse SAND, some gravel; light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, coral. | | | SPT | 100 | 6/3// 4/3/4/3 **N=14** | -12 | 14 | | | | | *13.50 - 13.95m:* PSD - 33% gravel, 36% sand and 31% fines | | | | |
| | *13.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 24 | | -13 | 15 | | | | | | | | | |
| | *14.75m:* Sandy fine to coarse GRAVEL, some silt; light brown. Medium dense, moist, well graded. Gravel, up to 50mm, sub-angular, coral. | | | SPT | 67 | 4/5// 6/7/9/6 **N=28** | | | | | | | | | | | Box 7.95-15.45m |
| | *15.45m:* Sandy fine to coarse GRAVEL, some silt; light brown. Tightly packed, moist, poorly graded. Gravel, sub-angular, coral. | | | | | | -14 | 16 | | | | | | | | | |
| Reef Limestone Formation | *15.65m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 100 | 20 for 41mm **N>=50** Solid Cone Bouncing Refusal | -15 | 17 | | | | | | | | | |
| | | | | | | BH02_ UCS @ 17.56m | -16 | 18 | | | | | *17.56 - 17.88m:* UCS - 68 MPa | | | | |
| | *18.00m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *18.15m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 92 | 20 for 35mm **N>=50** Solid Cone Bouncing Refusal | -17 | 19 | | | | | | | | | Box 15.45-19.40m |
| | | | | HQTT | 100 | | -18 | | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and tremie pipe were installed with the flush toby at 8:30 am on 23/01/26. Grouting of the installation was subsequently completed on 24/01/26 and 26/01/26.

Hole Depth 30. 1m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH02

SHEET: 3 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Main market

CO-ORDINATES: 168.31394600° -17.74074800° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.80m
R.L. COLLAR: 1.80m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 21/01/2026
FINISH DATE: 22/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *18.15m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | | -19 | 21 | | | | | | | | | |
| | *21.00m:* CORE LOSS - Suspect washed out. | | | | 0 | 25 for 45mm N>=50 Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *21.15m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 93 | | -20 | 22 | | | | | | | | | |
| | *22.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *22.60m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 93 | | -21 | 23 | | | | | | | | | Box 19.40-23.30m |
| | *24.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 15/12// 11/19/13/9 N>=50 Solid Cone | -22 | 24 | | | | | | | | | |
| | *24.50m:* Slightly weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 95 | | -23 | 25 | | | | | | | | | |
| | *25.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *25.75m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 83 | | -24 | 26 | | | | | | | | | |
| | *27.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 20/18// for 45mm N>=50 Solid Cone Bouncing Refusal | -25 | 27 | | | | | | | | | |
| | *27.35m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 83 | | -26 | 28 | | | | | | | | | Box 23.30-28.35m |
| | *29.05m:* CORE LOSS - Suspect washed out. | | | HQTT | 73 | | -27 | 29 | | | | | | | | | |
| | *29.45m:* Slightly weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | | | | -28 | | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and tremie pipe were installed with the flush toby at 8:30 am on 23/01/26. Grouting of the installation was subsequently completed on 24/01/26 and 26/01/26.

Hole Depth 30. 1m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH02

SHEET: 4 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Main market

CO-ORDINATES: 168.31394600° (WGS84) -17.74074800°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.80m
R.L. COLLAR: 1.80m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 21/01/2026
FINISH DATE: 22/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (HW SW MW DW CW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *30.00m:* NO RECOVERY - Solid SPT, no overcore recovered.<br>30.1m: END OF BOREHOLE | | | | 0 | 18/10// for 25mm **N>=50** Solid Cone Bouncing Refusal | -29 -30 -31 -32 -33 -34 -35 -36 -37 -38 | 31 32 33 34 35 36 37 38 39 | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and tremie pipe were installed with the flush toby at 8:30 am on 23/01/26. Grouting of the installation was subsequently completed on 24/01/26 and 26/01/26.

Hole Depth 30.1m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH02**

**Hole Location:** Main market



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313946 (WGS84) -17.740748<br>R.L.: 1.80m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 21/01/2026<br>HOLE FINISHED: 22/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-7.95m




7.95-15.45m

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH02**

**Hole Location:** Main market



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313946 (WGS84) -17.740748<br>R.L.: 1.80m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 21/01/2026<br>HOLE FINISHED: 22/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




15.45-19.40m




19.40-23.30m

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH02**

**Hole Location:** Main market



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313946 (WGS84) -17.740748<br>R.L.: 1.80m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 21/01/2026<br>HOLE FINISHED: 22/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




23.30-28.35m




28.35-30.10m

TTNZ_20251211 - GeneralLog - 5/05/2026 5:58:06 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH03

SHEET: 1 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Lolam House

CO-ORDINATES: 168.31441700° (WGS84) -17.73874900°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.30m
R.L. COLLAR: 2.30m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reclamation Fill | *0.00m:* CORE LOSS - Suspect washed out. [RECLAMATION FILL] | | | | | | | | | | | | | | | | |
| | *0.60m:* Sandy fine to coarse GRAVEL, some silt; light brown and grey. Medium dense, moist, poorly graded. Gravel, sub-angular, coral. | | | HQTT | 60 | | | | | | | | | | | | |
| Peri-reef Deposits | *1.60m:* Gravelly fine to coarse SAND, minor silt; light brown. Medium dense, moist, well graded; gravel, fine to medium, sub-rounded, coral. [PERI-REEF DEPOSITS] | | | SPT | 100 | 6/5// 5/5/5/4 N=19 | | | | | | | *1.50 - 1.95m:* PSD - 34% gravel, 57% sand and 9% fines | | | | |
| | *1.95m:* CORE LOSS - Suspect washed out. Small finger coral samples stuck in drill bit. | | | HQTT | 0 | | | | | | | | | | | | |
| | *3.00m:* Fine to coarse GRAVEL, minor sand; brown and white. Medium dense, moist, well graded. Gravel, sub-rounded, coral and shell fragments. | | | SPT | 100 | 3/2// 3/3/4/3 N=13 | | | | | | | | | | | |
| | *3.30m:* Fine to coarse SAND, some silt, minor gravel; light brown. Medium dense, moist, poorly graded; gravel, medium, sub-rounded, coral. | | | | | | | | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. SAND and coral gravels. | | | HQTT | 5 | | | | | | | | | | | | |
| | *4.45m:* Gravelly fine to coarse SAND, some silt; light brownish grey. Medium dense, moist, well graded; gravel, fine to coarse, sub-rounded, coral. | | | SPT | 100 | 4/4// 5/5/5/3 N=18 | | | | | | | *4.50 - 4.95m:* PSD - 42% gravel, 43% sand and 15% fines | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. Light grey SAND and coral gravel. | | | | | | | | | | | | | | | | |
| | *5.20m:* Fine to coarse SAND, some silt and some gravel; light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-rounded, coral. | | | HQTT | 76 | | | | | | | | | | | | |
| | | | | SPT | 100 | 6/6// 6/4/5/5 N=20 | | | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. Grey SAND. | | | HQTT | 0 | | | | | | | | | | | | |
| | *7.50m:* Silty fine to coarse SAND, some gravel; brownish grey. Medium dense, moist, well graded; gravel, fine to coarse. | | | SPT | 100 | 3/2// 3/3/3/3 N=12 | | | | | | | *7.50 - 7.95m:* PSD - 22% gravel, 54% sand and 24% fines | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. Grey SAND. | | | HQTT | 5 | | | | | | | | | | | | |
| | *8.95m:* Fine to coarse GRAVEL, some silt and some sand; brownish grey. Loosely packed, moist, poorly graded. Gravel, sub-rounded, coral. Sand and fines washed out. | | | SPT | 100 | 4/6// 6/6/6/5 N=23 | | | | | | | | | | | |
| | *9.00m:* Gravelly fine to coarse SAND, minor silt; yellowish light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, coral. | | | HQTT | 52 | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 25, 50, 75
Fracture Spacing (mm): 2000, 600, 200, 60, 20
Core Box No: Box 0.00-6.45m

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH03

SHEET: 2 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Lolam House

CO-ORDINATES: 168.31441700° (WGS84) -17.73874900°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.30m
R.L. COLLAR: 2.30m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peri-reef Deposits | *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 52 | | | | | | | | | | | | |
| | *9.95m:* SAND and COBBLES, some gravel; light brown. Loosely packed, moist, poorly graded. Cobbles, up to 80mm, sub-angular, coral. | | | SPT | 100 | 3,5// 9/16/11 for 50 mm **N>=50** Bouncing | | | | | | | | | | | |
| | *10.50m:* Sandy fine to coarse GRAVEL; brown. Very dense, moist, well graded. Gravel, sub-angular, coral. [REEF LIMESTONE FORMATION] | | | | | | | | | | | | | | | | |
| | *10.95m:* Moderately weathered, dark brown and white, LIMESTONE. Very weak, well cemented. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 100 | | | | | | | | | | | | |
| | *12.00m:* CORE LOSS - Suspect washed out. | | | | 0 | 20 for 60mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *12.50m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, well cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 69 | BH03_UCS @ 12.66m | | | | | | | *12.66 - 12.86m:* UCS - 1.4 MPa | | | | Box 6.45-13.00m |
| | | | | SPTC | 0 | 9/14// 11 for 50mm **N>=50** Solid Cone Bouncing | | | | | | | *13.70 - 13.80m:* UCS - 8.1 MPa | | | | |
| | | | | | | BH03_UCS @ 13.70m | | | | | | | | | | | |
| | *14.00m:* CORE LOSS - Suspect washed out. | | | HQTT | 77 | | | | | | | | | | | | |
| | *14.50m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, well cemented. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | | | | | | | | | | | | | | |
| | *15.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 10/4// 2,2,3,2 for 10 mm **N>=50** Solid Cone Bouncing | | | | | | | | | | | |
| | *15.40m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 92 | | | | | | | | | | | | |
| | *16.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 11/20// for 65mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *16.75m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 92 | | | | | | | | | | | | Box 13.00-17.70m |
| | *18.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 15/23// for 60mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *18.50m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 74 | | | | | | | | *18.50 - 19.50m:* Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids | | | | |
| Reef Limestone Formation | *19.50m:* CORE LOSS - Suspect washed out. | | | HQTT | 60 | | | | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

**Hole Depth** 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH03

SHEET: 3 OF 3

| | | |
|---|---|---|
| PROJECT: EEETA | CO-ORDINATES: 168.31441700° (WGS84) -17.73874900° | R.L. GROUND: 2.30m |
| JOB No.: 1097984.1000.2000 | | R.L. COLLAR: 2.30m |
| LOCATION: Lolam House | DIRECTION: 180° | DATUM: ELLIPSOID |
| | ANGLE FROM HORIZ.: -90° | SURVEY: Map or aerial photograph |

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (HW SW MW HW VW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *19.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *20.10m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 60 | | -18 | 21 | | | | | | | | | |
| | *21.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 16/8// for 50mm **N>=50** Solid Cone Bouncing Refusal | -19 | | | | | | | | | | |
| | *21.70m:* Moderately weathered, greyish white, LIMESTONE. Very weak, moderately cemented, coarse grained. Finger coral recovered as coarse gravel. | | | HQTT | 58 | | | 22 | | | | | | | | | |
| | *21.85m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | | | | -20 | | | | | | | | | | |
| | *22.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *22.85m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 43 | | -21 | 23 | | | | | | | | | |
| | *24.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 11/12// 20/10 for 35 mm **N>=50** Solid Cone Bouncing | -22 | 24 | | | | | | | | | |
| | *24.40m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. Recovered as: sandy GRAVEL. | | | HQTT | 89 | | | 25 | | | | | | | | | |
| | *25.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 13/8// 13/18/7/6 **N=44** Solid Cone | -23 | 26 | | | | | | | | | |
| | *26.20m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. Recovered as: fine to medium GRAVEL, some sand. | | | HQTT | 76 | | -24 | | | | | | | | | | |
| | *27.00m:* CORE LOSS - Suspect washed out. | | | | | | | 27 | | | | | | | | | |
| | *27.80m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 47 | | -25 | | | | | | | | | | |
| | *28.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 7/5// 3/5/18/2 for 5 mm **N>=50** Solid Cone | | 28 | | | | | | | | | |
| | *29.50m:* Same as description above. | | | HQTT | 45 | | -26 | | | | | | | | | | |
| | 30m: END OF BOREHOLE | | | | | | -27 | 29 | | | | | | | | | |

Box 17.70-24.00m

Box 24.00-30.00m

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

**Hole Depth** 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-6.45m




6.45-13.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




13.00-17.70m




17.70-24.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




24.00-30.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH04

SHEET: 1 OF 2

| | | |
|---|---|---|
| PROJECT: EEETA | CO-ORDINATES: 168.31476800° (WGS84) -17.73779600° | R.L. GROUND: 5.30m |
| JOB No.: 1097984.1000.2000 | | R.L. COLLAR: 5.30m |
| LOCATION: National Bank of Vanuatu | DIRECTION: 180° | DATUM: ELLIPSOID |
| | ANGLE FROM HORIZ.: -90° | SURVEY: Map or aerial photograph |

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 13/12/2025
FINISH DATE: 13/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations |
|---|---|---|---|---|---|---|---|---|---|---|
| | SOIL: Classification, colour, consistency / density, moisture, plasticity<br>ROCK: Weathering, colour, fabric, name, strength, cementation | | | | | | | | | |
| Fill | *0.00m:* Sandy fine to coarse GRAVEL; brown and white. Loosely packed, dry, poorly graded. Gravel, sub-rounded, coral; sand, fine to coarse. Plastic bag. [FILL] | HQTT | 20 | | 5 | 0 | | | | |
| | *0.30m:* CORE LOSS - Suspect washed out. | | | | | | | | | |
| | *0.30 - 1.50m:* Cuttings are light brownish white, sand comprising coral. | | | | 1 | 1 | | | | |
| Peri-reef Deposits | *1.50m:* Fine to medium SAND, some gravel, minor silt; light brownish white. Tightly packed, moist, uniformly graded; gravel, fine to medium, sub-angular, shell fragments. [PERI-REEF DEPOSITS] | SPT | 100 | 3/4// 8/8/12/22 **N>=50** | 4 | 2 | | | | *1.50 - 1.95m:* PSD - 27% gravel, 45% sand and 26% fines |
| | *1.95m:* BOULDERS, some gravel; white and light brown. Tightly packed, moist, poorly graded. Boulders, up to 500mm, Coral. | HQTT | 100 | | 3 | 3 | | | | |
| | *2.85m:* Fine to coarse GRAVEL, some sand; light brownish white. Loosely packed, moist, poorly graded. Gravel, rounded, Coral. | | | | 2 | 4 | | | | |
| | *3.60m:* CORE LOSS - Suspect washed out. | HQTT | 40 | | 1 | 4 | | | | |
| | *4.50m:* Fine to coarse GRAVEL, some sand; brownish white. Medium dense, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral. | SPT | 100 | 4/3// 2/3/3/4 **N=12** | 0 | 5 | | | | |
| | *5.00m:* COBBLES; light brown and white. Very dense, moist. Cobbles, Coral. | HQTT | 100 | | -1 | 6 | | | | |
| | | | | 20 for 50mm **N>=50** Bouncing Refusal | | | | | | |
| | *6.40m:* Fine to coarse GRAVEL, some sand; brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral. | HQTT | 38 | | -2 | 7 | | | | |
| | *6.60m:* CORE LOSS - Suspect washed out. | | | | | | | | | |
| | *6.60 - 9.00m:* Cuttings are light brown and white, sand comprising coral. | | | | -3 | 8 | | | | |
| | *7.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | SPTC | 0 | 5/5// 5/5/4/4 **N=18** Solid Cone | | | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. | HQTT | 0 | | -4 | 9 | | | | |
| | *9.00m:* Sandy fine to coarse GRAVEL; brown. Loose to medium dense, moist, poorly graded. Gravel, sub-rounded, Coral. | SPT | 100 | 2/3// 2/2/3/6 **N=13** | | | | | | |
| Reef Limestone Formation | *9.40m:* Fine to coarse GRAVEL, some sand; brown and white. Medium dense, moist, poorly graded. Gravel, sub-angular, Coral. [REEF LIMESTONE FORMATION] | HQTT | 38 | | | | | | | |

Water Level / Fluid Loss (%): 25, 50, 75 — 15/12/2025
Casing
Installation: Box 0.00-5.90m
Core Box No

COMMENTS: 1. Borehole has piezometer installation from 6 - 9 m. A Levelogger was installed at 8.8 m bgl. 2. Minimal water circulation the entire depth of borehole.

**Hole Depth** 15.17m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:14:03 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH04

SHEET: 2 OF 2

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: National Bank of Vanuatu

CO-ORDINATES: 168.31476800° (WGS84) -17.73779600°

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 5.30m

R.L. COLLAR: 5.30m

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: COCU

CHECKED: CRB

START DATE: 13/12/2025

FINISH DATE: 13/12/2025

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *9.85m:* CORE LOSS - Suspect washed out. | | | HQTT | 38 | | | | | | | | | | | | |
| | *10.50m:* Fine to coarse GRAVEL, some sand; brown and white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 7/10// 18/10/8/14 for 65mm **N>=50** | | | | | | | | | | | |
| | *10.94m:* Slightly weathered, white and brown, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | | | | | | | | | | | | |
| | | | | SPT | 100 | 8/5// 6/17/18/9 for 65mm **N>=50** | | | | | | | | | | | Box 5.90-12.45m |
| | *12.70m:* CORE LOSS - Confirmed material left in bottom of hole, washed out on subsequent run. | | | HQTT | 25 | | | | | | | | | | | | |
| | *13.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 2/3// 13/10/9/13 **N=45** Solid Cone | | | | | | | | | | | |
| | *13.95m:* Slightly weathered, white and brown, LIMESTONE. Very weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; white and brown. Tightly packed, moist, poorly graded. Gravel, sub-rounded, Coral. | | | HQTT | 57 | | | | | | | | | | | | |
| | *14.55m:* CORE LOSS - Confirmed material left in bottom of hole, washed out on subsequent run. | | | | | | | | | | | | | | | | Box 12.45-15.17m |
| | *15.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 8/12// 10 for 20mm **N>=50** Solid Cone Bouncing | | | | | | | | | | | |
| | 15.17m: END OF BOREHOLE | | | | | | | | | | | | | | | | |

COMMENTS: 1. Borehole has piezometer installation from 6 - 9 m. A Levelogger was installed at 8.8 m bgl. 2. Minimal water circulation the entire depth of borehole.

**Hole Depth** 15.17m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:14:03 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH04**

**Hole Location:** National Bank of Vanuatu



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314768 (WGS84) -17.737796<br>R.L.: 5.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 13/12/2025<br>HOLE FINISHED: 13/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-5.90m




5.90-12.45m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:14:03 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH04**

**Hole Location:** National Bank of Vanuatu



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314768 (WGS84) -17.737796<br>R.L.: 5.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 13/12/2025<br>HOLE FINISHED: 13/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




12.45-15.17m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:14:04 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH04A

SHEET: 1 OF 3

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: National Bank of Vanuatu

CO-ORDINATES: 168.31462600° (WGS84) -17.73783300°

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 5.30m

R.L. COLLAR:

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: COCU

CHECKED: CRB

START DATE: 15/12/2025

FINISH DATE: 15/12/2025

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fill | *0.00m:* Sandy fine to coarse GRAVEL; brown and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, coral. [FILL] | | | HQTT | 40 | | 5 | 0 | | | | | | | | | |
| | *0.45m:* Fine to coarse GRAVEL; white. Loosely packed, moist, poorly graded. Gravel, sub-rounded, Coral and shell fragments. | | | | | | | | | | | | | | | | |
| | *0.60m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.50m:* Fine to coarse GRAVEL, some sand; light brown white. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral and shell fragments. | | | HQTT | 37 | | 4 | 1 | | | | | | | | | |
| Peri-reef Deposits | *2.05m:* CORE LOSS - Suspect washed out. [PERI-REEF DEPOSITS] | | | | | | 3 | 2 | | | | | | | | | |
| | *3.00m:* Fine to coarse GRAVEL, some sand; white. Medium dense, moist, well graded. Gravel, sub-rounded to sub-angular, Coral and shell fragments. | | | SPT | 100 | 11/9// 8/8/6/5 **N=27** | 2 | 3 | | | | | *3.00 - 3.45m:* PSD - 49% gravel, 46% sand and 5% fines | | | | |
| | *3.80 - 3.95m:* COBBLES. Cobbles, up to 130mm, sub-angular, coral. | | | | | | | | | | | | | | | | |
| | *3.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 48 | | 1 | 4 | | | | | | | | | |
| | *4.50m:* Cobbly fine to coarse GRAVEL, some sand; white. Tightly packed, moist, well graded. Gravel, sub-angular, Coral and shell fragments; cobbles, up to 120mm. Calcite cement. | | | | | | 0 | 5 | | | | | | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 30 | | | | | | | | | | | | |
| | *4.95 - 6.00m:* Cuttings are light brownish white, sand comprising coral. | | | | | | | | | | | | | | | | |
| | *6.00m:* Sandy fine to coarse GRAVEL; white. Loose, moist, well graded. Gravel, sub-rounded, Coral and shell fragments. | | | SPT | 100 | 3/2// 2/2/2/3 **N=9** | -1 | 6 | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 0 | | | | | | | | | | | | |
| | *6.45 - 7.50m:* Cuttings are light brownish white, sand comprising coral. | | | | | | -2 | 7 | | | | | | | | | |
| | *7.50m:* Fine to coarse GRAVEL, minor sand, trace silt; brown and white. Loosely packed, moist, poorly graded. Gravel, rounded, Coral and shell fragments. | | | | | | | | | | | | | | | | |
| | *7.80m:* CORE LOSS - Suspect washed out. | | | HQTT | 20 | | -3 | 8 | | | | | | | | | |
| | *7.80 - 9.00m:* Cuttings are brown sand and coral. | | | | | | | | | | | | | | | | |
| | *9.00m:* Gravelly fine to coarse SAND, some silt, trace organics; brownish grey speckled white. Medium dense, moist, well graded; gravel, fine to coarse, rounded, Coral and shell fragments; organics, wood fragments. | | | SPT | 100 | 3/5// 5/2/2/2 **N=11** | -4 | 9 | | | | | *9.00 - 9.45m:* PSD - 39% gravel, 39% sand and 22% fines | | | | Box 0.00-9.45m |
| | *9.70m:* CORE LOSS - Suspect washed out. | | | HQTT | 24 | | | | | | | | | | | | |

COMMENTS: 1. Minimal water circulation the entire depth of borehole.

**Hole Depth** 21m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:15:00 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH04A

SHEET: 2 OF 3

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: National Bank of Vanuatu

CO-ORDINATES: 168.31462600° (WGS84) -17.73783300°

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 5.30m

R.L. COLLAR:

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: COCU

CHECKED: CRB

START DATE: 15/12/2025

FINISH DATE: 15/12/2025

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peri-reef Deposits | [CONT] *9.70m:* CORE LOSS - Suspect washed out. | | | HQTT | 24 | | -5 | 11 | | | | | | | | | |
| | *10.50m:* Gravelly fine to coarse SAND, trace organics; brownish grey speckled white. Loosely packed, moist, well graded; gravel, fine to coarse, rounded, Coral and shell fragments; organics, wood fragments. | | | | | | | | | | | | | | | | |
| | *10.80m:* Sandy fine to coarse GRAVEL, trace silt; light brownish white. Loosely packed, moist, well graded. Gravel, sub-rounded, Coral and shell fragments. | | | HQTT | 33 | | -6 | | | | | | | | | | |
| | *11.00m:* CORE LOSS - Suspect washed out. | | | | | | | 12 | | | | | | | | | |
| | *12.00m:* Fine to coarse GRAVEL, some sand, trace silt; brownish orange. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 100 | 5/8// 8/9/23/10 for 35mm **N>=50** | -7 | | | | | | | | | | |
| | *12.75m:* CORE LOSS - Suspect washed out. | | | HQTT | 31 | | -8 | 13 | | | | | | | | | |
| | *13.50m:* Cobbly coarse GRAVEL; white and brown. Tightly packed, moist. Gravel, sub-angular, Coral; cobbles, up to 100mm. | | | | | | | | | | | | | | | | |
| | *13.80m:* CORE LOSS - Obstruction (recovered) in front of barrel. | | | HQTT | 20 | | -9 | 14 | | | | | | | | | |
| | *13.80 - 15.00m:* Cuttings are brown sand and coral. | | | | | | | | | | | | | | | | |
| | *15.00m:* Fine to coarse GRAVEL, some sand, trace silt; brownish grey. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 100 | 3/5// 8/11/15/16 for 35mm **N>=50** Bouncing | -10 | 15 | | | | | | | | | |
| | *15.70m:* Cobbly coarse GRAVEL; white. Tightly packed, moist. Gravel, sub-angular, Coral; cobbles, up to 90mm. | | | HQTT | 50 | | -11 | | | | | | | | | | |
| | *15.95m:* CORE LOSS - Obstruction (recovered) in front of barrel. | | | | | | | 16 | | | | | | | | | |
| Reef Limestone Formation | *16.50m:* Slightly weathered, white and brown, LIMESTONE. Very weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 67 | | -12 | | | | | | | | | | |
| | *17.50m:* CORE LOSS - Obstruction (recovered) in front of barrel. | | | | | | | 17 | | | | | | | | | |
| | *18.00m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, well cemented, coarse grained. Recovered as: cobbly coarse GRAVEL; light brownish white. Tightly packed, moist. Gravel, sub-angular, Coral; cobbles, up to 100mm. | | | | | | -13 | 18 | | | | | | | | | |
| | *18.50m:* CORE LOSS - Obstruction (recovered) in front of barrel. | | | HQTT | 33 | | | | | | | | | | | | |
| | *19.50m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, well cemented, coarse grained. Recovered as: cobbly coarse GRAVEL; light brownish white. Tightly packed, | | | HQTT | 33 | | -14 | 19 | | | | | | | | | Box 9.45-18.00m |

COMMENTS: 1. Minimal water circulation the entire depth of borehole.

Hole Depth 21m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:15:00 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH04A

SHEET: 3 OF 3

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: National Bank of Vanuatu

CO-ORDINATES: 168.31462600° (WGS84) -17.73783300°

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 5.30m

R.L. COLLAR:

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: COCU

CHECKED: CRB

START DATE: 15/12/2025

FINISH DATE: 15/12/2025

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (HW SW MW HW DW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | moist. Gravel, sub-angular, Coral; cobbles, up to 100mm. | | | HQTT | 33 | | -15 | 21 | | | | | | | | | Box 18.00-21.00m |
| | *20.00m:* CORE LOSS - Suspect material dropped out of barrel. | | | | | | | | | | | | | | | | |
| | 21m: END OF BOREHOLE | | | | | | -16 | 22 | | | | | | | | | |
| | | | | | | | -17 | 23 | | | | | | | | | |
| | | | | | | | -18 | 24 | | | | | | | | | |
| | | | | | | | -19 | 25 | | | | | | | | | |
| | | | | | | | -20 | 26 | | | | | | | | | |
| | | | | | | | -21 | 27 | | | | | | | | | |
| | | | | | | | -22 | 28 | | | | | | | | | |
| | | | | | | | -23 | 29 | | | | | | | | | |
| | | | | | | | -24 | | | | | | | | | | |

COMMENTS: 1. Minimal water circulation the entire depth of borehole.

**Hole Depth** 21m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:15:00 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH04A**

**Hole Location:** National Bank of Vanuatu



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314626 (WGS84) -17.7378330<br>R.L.: 5.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 15/12/2025<br>HOLE FINISHED: 15/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-9.45m




9.45-18.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:15:00 am - Produced with Core-GS by GeRoc

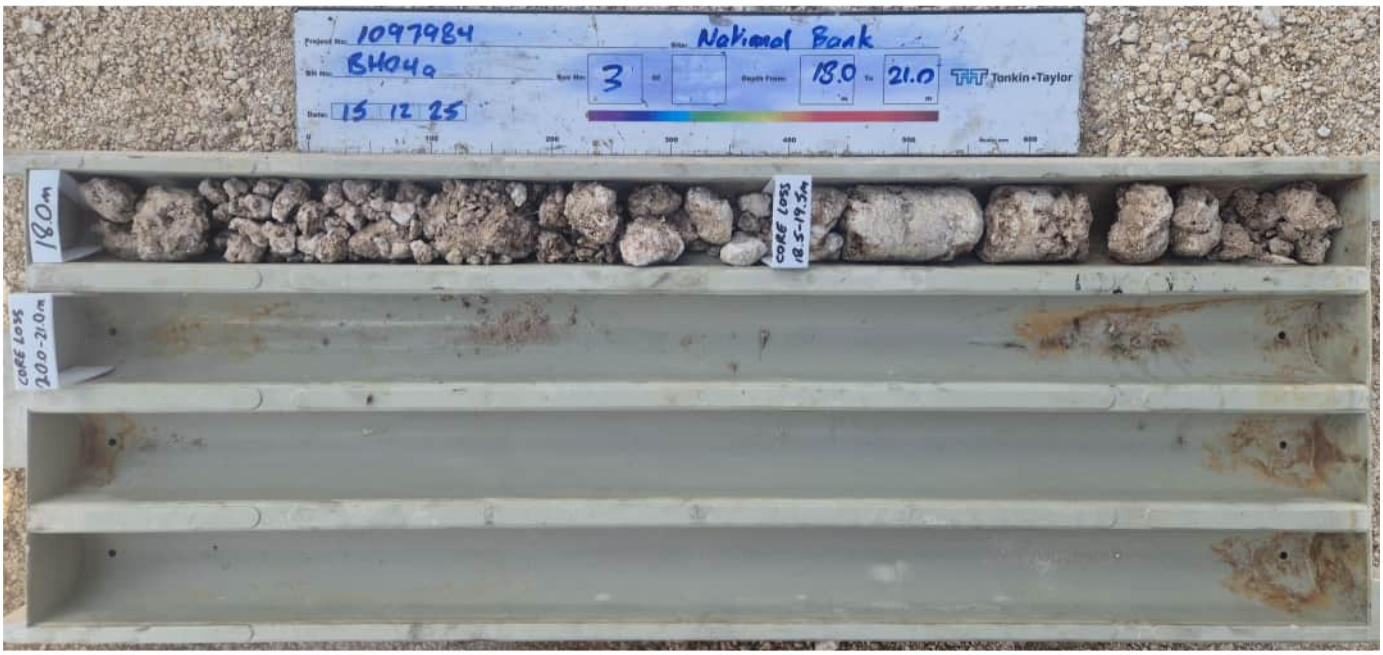
# CORE PHOTOS

BOREHOLE No.: **BH04A**

**Hole Location:** National Bank of Vanuatu



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314626 (WGS84) -17.7378330<br>R.L.: 5.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 15/12/2025<br>HOLE FINISHED: 15/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




18.00-21.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:15:00 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH05

SHEET: 1 OF 2

| | | |
|---|---|---|
| PROJECT: EEETA | CO-ORDINATES: 168.31323000° (WGS84) -17.73734700° | R.L. GROUND: 2.10m |
| JOB No.: 1097984.1000.2000 | | R.L. COLLAR: 2.10m |
| LOCATION: Jungle Cafe | DIRECTION: 180° | DATUM: ELLIPSOID |
| | ANGLE FROM HORIZ.: -90° | SURVEY: Map or aerial photograph |

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 12/12/2025
FINISH DATE: 13/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reclamation Fill | *0.00m:* COBBLES, some sand and some gravel; white and brown. Loosely packed, moist, poorly graded. Cobbles, up to 80mm; gravel, fine to coarse, sub-angular, coral. [RECLAMATION FILL] | | | | | | 2 | 0 | | | | | | | | | |
| | *0.65m:* CORE LOSS - Suspect washed out. | | | HQTT | 43 | | 1 | 1 | | | | | | | | | |
| Reef Limestone Formation | *1.50m:* Slightly weathered, white and light brown, LIMESTONE. Very weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 100 | 10/10// for 5 mm **N>=50** Bouncing Refusal | 0 | 2 | | | | | | | | | |
| | *3.07m:* CORE LOSS - Suspect washed out. | | | | | 15 for 70mm **N>=50** Bouncing Refusal | -1 | 3 | | | | | | | | | |
| | *3.25m:* Slightly weathered, white and light brown, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 87 | | | | | | | | | | | | |
| | *4.94m:* CORE LOSS - Suspect washed out. | | | SPT | 100 | 5/9// 16/12/13/9 for 65mm **N>=50** | -3 | 5 | | | | | | | | | Box 0.00-4.94m |
| | *5.10m:* Slightly weathered, white and light brown, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 85 | | | | | | | | | | | | |
| | *6.00m:* Gravelly fine to coarse SAND, some silt; brown. Medium dense, moist, poorly graded; gravel, fine to coarse, sub-angular, Coral. | | | SPT | 100 | 3/2// 4/2/2/2 **N=10** | -4 | 6 | | | | | | | | | |
| | *6.50m:* CORE LOSS - Confirmed material left in bottom of hole, washed out on subsequent run. | | | HQTT | 5 | | -5 | 7 | | | | | | | | | |
| | *7.50m:* Slightly weathered, white and light brown, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | 20 for 50mm **N>=50** Bouncing Refusal | -6 | 8 | | | | | | | | | |
| | *8.80m:* Slightly weathered, white, LIMESTONE. Very weak, well cemented, fine grained. | | | HQTT | 100 | 20 for 70mm **N>=50** Bouncing Refusal BH05_UCS @ 9.35m | -7 | 9 | | | | | *9.35 - 9.55m:* UCS - 2.0 MPa | | | | Box 4.94-9.90m |

Water Level / Fluid Loss (%): 25, 50, 75 — 13/12/2025

COMMENTS: 1. Borehole has piezometer installation from 3 - 6 m. A Levelogger was installed at 5.8 m bgl. 2. No water circulation the entire depth of borehole.

**Hole Depth** 19.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:18:59 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH05

SHEET: 2 OF 2

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Jungle Cafe

CO-ORDINATES: 168.31323000° -17.73734700° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.10m
R.L. COLLAR: 2.10m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 12/12/2025
FINISH DATE: 13/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (UW SW MW HW CW EW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *8.80m:* Slightly weathered, white, LIMESTONE. Very weak, well cemented, fine grained. | | | HQTT | 100 | 20 for 20mm **N>=50** Bouncing Refusal | -8 | | | | | | | | | | |
| | *11.25m:* CORE LOSS - Suspect washed out. Fine grained Limestone. | | | HQTT | 51 | | -9 | 11 | | | | | | | | | |
| | *12.00m:* Slightly weathered, white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | 10 for 20mm **N>=50** Solid Cone Bouncing Refusal | -10 | 12 | | | | | | | | | |
| | *13.80m:* CORE LOSS - Suspect washed out. Highly fractured Limestone. | | | HQTT | 18 | 20 for 40mm **N>=50** Solid Cone Bouncing Refusal | -11 | 13 | | | | | *13.80 - 16.50m:* Driller comment: material is similar strength to core above. Cuttings are light brownish white sand, comprising coral. Suspect washing out highly fractured Limestone | | | | |
| | | | | HQTT | 0 | 20 for 20mm **N>=50** Solid Cone Bouncing Refusal | -12 | 14 | | | | | | | | | |
| | | | | | | | -13 | 15 | | | | | | | | | |
| | | | | | | | -14 | 16 | | | | | | | | | |
| | *16.50m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: fine to coarse GRAVEL, minor cobbles, trace sand; brownish white. Very dense, moist, poorly graded. Gravel, angular, Coral. | | | HQTT | 73 | | -15 | 17 | | | | | | | | | Box 9.90-17.10m |
| | *17.60m:* CORE LOSS - Suspect washed out. Highly fractured Limestone. | | | | | | -16 | 18 | | | | | | | | | |
| | *18.00m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: fine to coarse GRAVEL, minor cobbles, trace sand; brownish white. Very dense, moist, poorly graded. Gravel, angular, Coral. | | | HQTT | 65 | 20 for 60mm **N>=50** Solid Cone Bouncing Refusal | -17 | 19 | | | | | | | | | Box 17.10-19.50m |
| | *19.00m:* CORE LOSS - Suspect material dropped out of barrel. | | | | | | | | | | | | | | | | |
| | 19.5m: END OF BOREHOLE | | | | | | | | | | | | | | | | |

COMMENTS: 1. Borehole has piezometer installation from 3 - 6 m. A Levelogger was installed at 5.8 m bgl. 2. No water circulation the entire depth of borehole.

**Hole Depth** 19.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:18:59 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH05**

**Hole Location:** Jungle Cafe



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31323 (WGS84) -17.737347<br>R.L.: 2.10m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 12/12/2025<br>HOLE FINISHED: 13/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-4.94m




4.94-9.90m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:18:59 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH05**

**Hole Location:** Jungle Cafe



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31323 (WGS84) -17.737347<br>R.L.: 2.10m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 12/12/2025<br>HOLE FINISHED: 13/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




9.90-17.10m




17.10-19.50m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:18:59 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH06

SHEET: 1 OF 3

| | | |
|---|---|---|
| PROJECT: EEETA | CO-ORDINATES: 168.31488300° (WGS84) -17.73659300° | R.L. GROUND: 21.60m |
| JOB No.: 1097984.1000.2000 | | R.L. COLLAR: 21.60m |
| LOCATION: Municipality City Council | DIRECTION: 180° | DATUM: ELLIPSOID |
| | ANGLE FROM HORIZ.: -90° | SURVEY: Map or aerial photograph |

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 02/12/2025
FINISH DATE: 04/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fill | *0.00m:* GRAVEL, some sand, minor silt; light brown and white. Stiff, dry; gravel, coarse, angular, Coral. [FILL] | | | | | | | | | | | | | | | | |
| | *0.05m:* Clayey SILT, some gravel; dark brown mixed white. Stiff, moist, high plasticity; gravel, fine to coarse, sub-angular, Coral reef. | | | | | | | | | | | | | | | | |
| Reef Limestone Formation | *0.52m:* Slightly to moderately weathered, light white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 83 | | 21 | 0 | | | | | | | | | |
| | *1.25m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.50m:* Slightly to moderately weathered, light white streaked brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. | | | SPT | 100 | 3/7// 10/8/9/10 **N=37** | 20 | 1 | | | | | | | | | |
| | | | | HQTT | 100 | | 19 | 2 | | | | | | | | | |
| | | | | SPT | 100 | 5/10// 12/15/9/12 **N=48** | 18 | 3 | | | | | | | | | |
| | | | | HQTT | 100 | | 17 | 4 | | | | | | | | | Box 0.00-4.40m |
| | *4.20m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | SPT | 100 | 2/4// 6/10/21/13 for 65mm **N>=50** | 16 | 5 | | | | | | | | | |
| | | | | HQTT | 100 | | 15 | 6 | | | | | | | | | |
| | *6.00m:* Slightly weathered, white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: fine to coarse GRAVEL, some silt, minor sand; light brownish white. Medium dense, moist, poorly graded. Gravel, angular, limestone. | | | SPT | 100 | 6/6// 4/6/15/10 **N=35** | 14 | 7 | | | | | | | | | |
| | | | | HQTT | 100 | | 13 | 8 | | | | | | | | | |
| | *7.20m:* Slightly weathered, lightbrownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | 20 for 20mm **N>=50** Solid Cone Bouncing Refusal | 12 | 9 | | | | | | | | | Box 4.40-7.85m |
| | | | | | | BH06_UCS @ 8.57m | | | | | | | *8.57 - 8.79m:* UCS - 2.5 MPa | | | | |
| | *9.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 7/10// 10 for 30mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | *9.00m:* Grouted from 0 m to 9 m on 02.12 at end of day | DRY 02/12/2025 | | | |
| | *9.18m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *9.40m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 83 | | | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 9.0 m bgl and 12.0 m bgl.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH06

SHEET: 2 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Municipality City Council

CO-ORDINATES: 168.31488300° (WGS84) -17.73659300°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 21.60m
R.L. COLLAR: 21.60m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 02/12/2025
FINISH DATE: 04/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *9.40m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 83 | | | | | | | | | | | | |
| | *10.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 12/9// 7/5/7/9 **N=28** Solid Cone | | | | | | | | | | | |
| | *10.95m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *11.30m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: coarse GRAVEL, some silt, minor sand; light brownish white. Dense, moist. Gravel, angular, limestone. | | | HQTT | 67 | | | | | | | | | | | | |
| | | | | SPT | 100 | 11/7// 7/7/10/14 **N=38** | | | | | | | *12.00m:* Grouted from 0 m to 12 m on 03.12 at end of day | DRY 03/12/2025 | | | |
| | *12.80m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 81 | | | | | | | | | | | | |
| | *13.30m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *13.50m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | 20 for 50mm **N>=50** Bouncing Refusal | | | | | | | | | | | Box 7.85-12.85m |
| | *15.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 9 | 15/10// for 30mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *15.10m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | | | | | | | | | | | | |
| | *16.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 20 | 12/9// 14/10 for 20 mm **N>=50** Solid Cone Bouncing | | | | | | | | | | | |
| | *16.70m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. Minor chemical disintegration. | | | HQTT | 100 | | | | | | | | | | | | Box 12.85-17.10m |
| | *18.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | | 0 | 20 for 70mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *18.20m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 91 | | | | | | | | | | | | |
| | *19.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 63 | 10/8// 8/9/18/15 for 35mm **N>=50** Solid Cone Bouncing | | | | | | | | | | | |
| | *19.65m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: | | | | | | | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 9.0 m bgl and 12.0 m bgl.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH06

SHEET: 3 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Municipality City Council

CO-ORDINATES: 168.31488300° -17.73659300° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 21.60m
R.L. COLLAR: 21.60m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 02/12/2025
FINISH DATE: 04/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | fine to coarse GRAVEL, some silt, minor sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, limestone. | | | HQTT | 100 | | 1 | 21 | | | | | | | | | |
| | *20.65m:* Slightly weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 100 | 20 for 40mm **N>=50** Solid Cone Bouncing Refusal | 0 | 22 | | | | | | 04/12/2025 | | | Box 17.10-21.35m |
| | *22.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 13/12// 10/8/ 6/7 **N=31** Solid Cone | -1 | 23 | | | | | | | | | |
| | *22.95m:* CORE LOSS - Suspect washed out. Calcareous SAND, poorly cemented. | | | HQTT | 57 | | -2 | 24 | | | | | | | | | |
| | *23.40m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: fine to coarse GRAVEL, some sand, minor cobbles; light brownish white. Tightly packed, moist, poorly graded. Gravel, sub-angular, limestone. | | | | | | | | | | | | | | | | |
| | *24.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 11 | 14/15// 10/8/ 11/8 **N=37** Solid Cone | -3 | 25 | | | | | | | | | |
| | *24.40m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: fine to coarse GRAVEL, some sand, minor cobbles; light brownish white. Dense, moist. Gravel, sub-angular, limestone. | | | HQTT | 100 | | -4 | 26 | | | | | | | | | |
| | *24.75m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: fine to coarse SAND, some gravel, trace silt; light brownish white. Tightly packed, moist, well graded. Sand, Calcareous; gravel, fine to coarse, angular, coral and shell fragments. | | | | | | | | | | | | | | | | |
| | *25.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 51 | 11/15// 15/14/13/8 for 55mm **N>=50** Solid Cone | -5 | 27 | | | | | | | | | |
| | *25.70m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: gravelly fine to coarse SAND, trace silt; light brownish white. Very dense, moist, well graded. Sand, Calcareous; gravel, fine to coarse, angular, Coral and shell fragments. | | | HQTT | 100 | | -6 | 28 | | | | | | | | | Box 21.35-26.70m |
| | *27.00m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 12/12// 14/13/27 for 70 mm **N>=50** Solid Cone | -7 | 29 | | | | | | | | | |
| | *27.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 53 | | -8 | | | | | | | | | | |
| | *27.90m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, fine grained. Recovered as: gravelly fine to coarse SAND, trace silt; light brownish white. Tightly packed, moist, well graded. Sand, Calcareous; gravel, fine to coarse, angular, Coral and shell fragments. | | | | | | | | | | | | | | | | |
| | *28.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 7/8// 6/7/10/8 **N=31** Solid Cone | | | | | | | | | | | |
| | *28.95m:* CORE LOSS - Suspect washed out Calcareous SAND. | | | HQTT | 29 | | | | | | | | | | | | Box 26.70-30.00m |
| | *29.70m:* Same as description above | | | | | | | | | | | | | | | | |
| | 30m: END OF BOREHOLE | | | | | | | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 9.0 m bgl and 12.0 m bgl.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH06**

**Hole Location:** Municipality City Council



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314883 (WGS84) -17.736593<br>R.L.: 21.60m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 02/12/2025<br>HOLE FINISHED: 04/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-4.40m




4.40-7.85m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

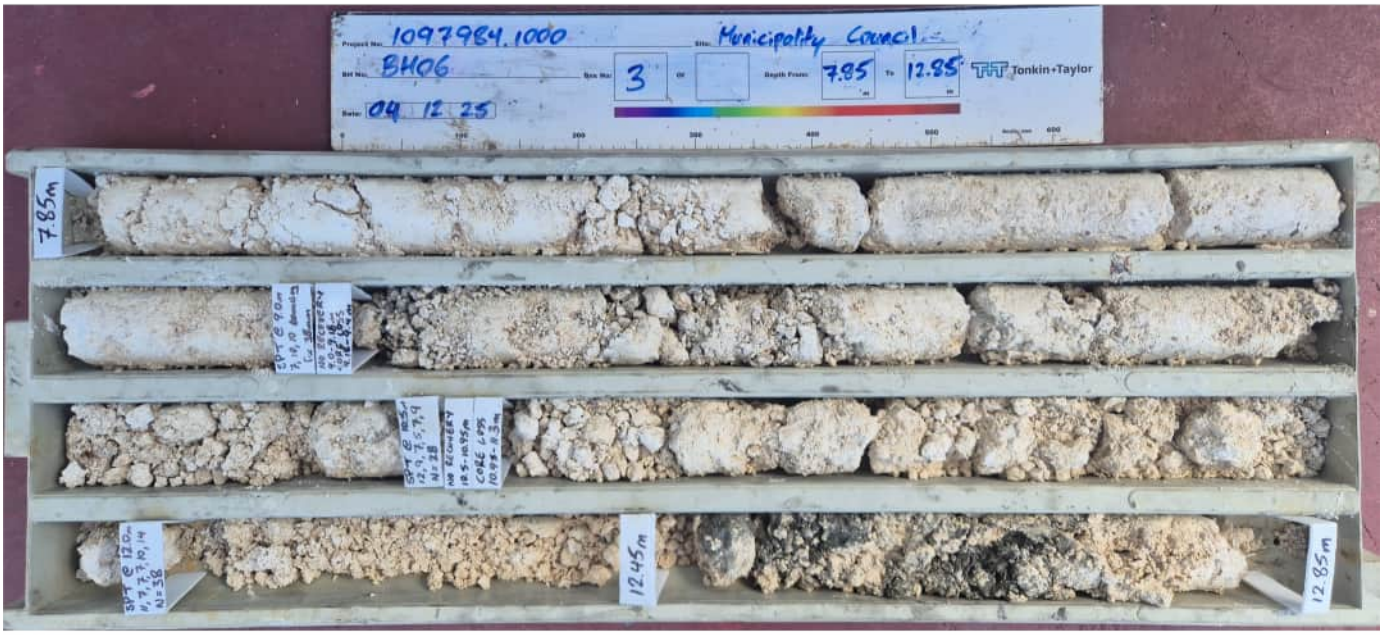
# CORE PHOTOS

BOREHOLE No.: **BH06**

**Hole Location:** Municipality City Council



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314883 (WGS84) -17.736593<br>R.L.: 21.60m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 02/12/2025<br>HOLE FINISHED: 04/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




7.85-12.85m




12.85-17.10m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH06**

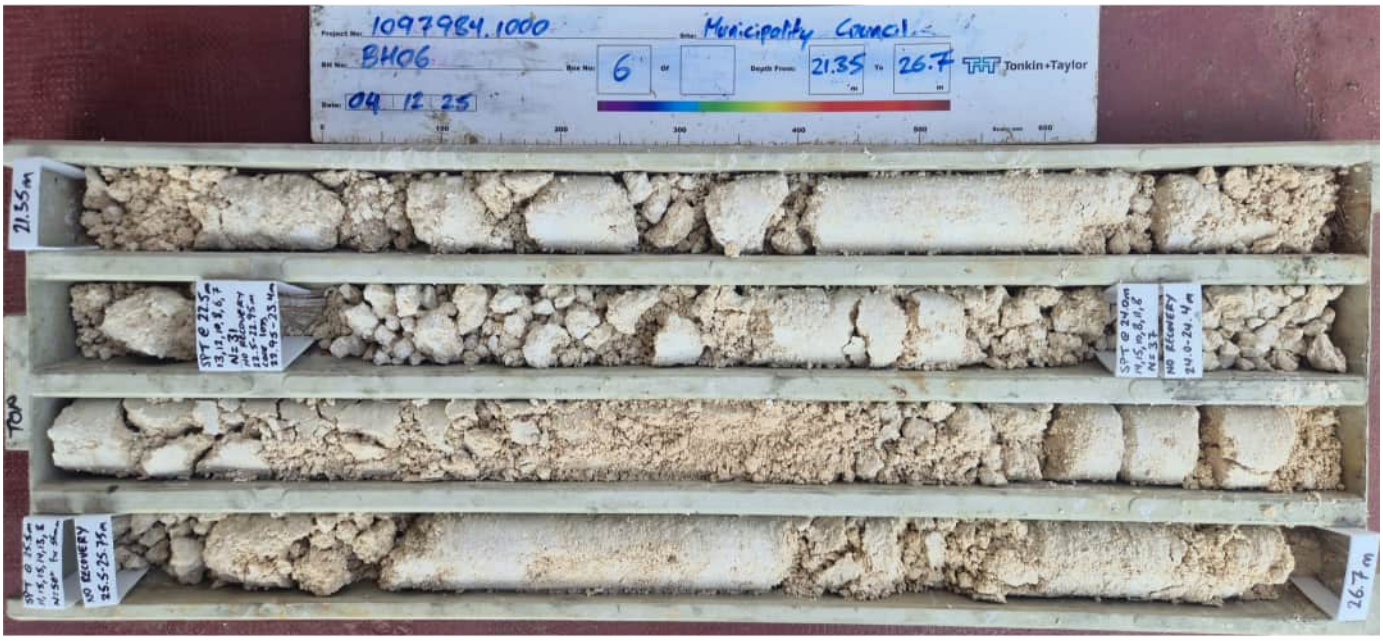
**Hole Location:** Municipality City Council



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314883 (WGS84) -17.736593<br>R.L.: 21.60m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 02/12/2025<br>HOLE FINISHED: 04/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




17.10-21.35m




21.35-26.70m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH06**

**Hole Location:** Municipality City Council



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314883 (WGS84) -17.736593<br>R.L.: 21.60m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 02/12/2025<br>HOLE FINISHED: 04/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




26.70-30.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:36:58 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH07

SHEET: 1 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Olympic

CO-ORDINATES: 168.31302800° -17.73601200° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 4.00m
R.L. COLLAR: 4.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 05/12/2025
FINISH DATE: 09/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fill | *0.00m:* GRAVEL, minor sand; light brown and black. Loosely packed, moist; gravel, coarse, sub-angular, Coral and wood. [FILL] | | | | | | | | | | | | | | | | |
| | *0.15m:* CONCRETE; grey mixed white. Loosely packed, dry. | | | | | | | | | | | | | | | | |
| Reef Limestone Formation | *0.35m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 73 | | 3 | 1 | | | | | | | | | |
| | *1.10m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 100 | 5/9// 11/8/ 9/11 **N=39** | | | | | | | | | | | |
| | *2.35m:* CORE LOSS - Suspect washed out. | | | HQTT | 38 | | 2 | 2 | | | | | | | | | |
| | *3.00m:* NO RECOVERY - Suspect slipped out of SPT spoon. | | | SPT | 0 | 10/4// 4/4/12/30 **N>=50** Bouncing | 1 | 3 | | | | | | | | | |
| | *3.45m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | HQTT | 81 | | 0 | 4 | | | | | | | | | |
| | *4.30m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *4.50m:* NO RECOVERY - Solid SPT, no overcore recovered. | | | SPTC | 0 | 8/10// 10/10/8/8 **N=36** Solid Cone | -1 | 5 | | | | | | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *5.15m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Medium dense to dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | HQTT | 81 | | -2 | 6 | | | | | | | | | |
| | | | | SPT | 100 | 6/8// 9/7/6/6 **N=28** | | | | | | | | | | | |
| | | | | HQTT | 100 | | -3 | 7 | | | | | | | | | |
| | | | | SPT | 100 | 10/6// 5/4/11/13 **N=33** | -4 | 8 | | | | | | | | | |
| | *8.20m:* CORE LOSS - Suspect washed out. | | | HQTT | 24 | | | | | | | | | | | | |
| | *9.00m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some cobbles, trace sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 100 | 13/13// 14/10 for 25 mm **N>=50** Bouncing | -5 | 9 | | | | | | | | | |
| | | | | HQTT | 100 | | | | | | | | | | | | |

Box 0.00-6.00m

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 13.5 bgl.

Hole Depth 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH07

SHEET: 2 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Olympic

CO-ORDINATES: 168.31302800° -17.73601200° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 4.00m
R.L. COLLAR: 4.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 05/12/2025
FINISH DATE: 09/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *9.00m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some cobbles, trace sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | HQTT / SPT | 100 / 100 | 11/8// 6/21/8/ 15 for 65mm **N>=50** | -7 | 11 | | | | | | | | | Box 6.00-10.50m |
| | *10.94m:* CORE LOSS - Suspect washed out. | | | HQTT | 47 | | | | | | | | | | | | |
| | *11.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some sand, minor silt; light brownish white. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 0 | 20 for 70mm **N>=50** Bouncing Refusal | -8 | 12 | | | | | | | | | |
| | *12.00m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some cobbles, trace sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | HQTT | 87 | | -9 | 13 | | | | | | | | | |
| | *13.25m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *13.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some sand, minor silt; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and shell fragments. | | | SPT | 100 | 10/12// 10 for 20mm **N>=50** Bouncing | -10 | 14 | | | | | *13.50m:* Borehole was grouted from 0 m to 13.5 m on the 05.12 at the end of day | | | | |
| | *14.10m:* CORE LOSS - Suspect washed out. | | | HQTT | 32 | | | | | | | | | | | | |
| | *15.00m:* Moderately weathered, light brown mottled orange, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, trace sand; light brown mottled orange. Medium dense, moist, poorly graded. Gravel, angular, Coral. | | | SPT | 100 | 15/12// 9/5/13/8 **N=35** | -11 | 15 | | | | | | | | | |
| | *15.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, some sand, minor silt; light brownish white. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 90 | | -12 | 16 | | | | | | | | | Box 10.50-16.00m |
| | *16.40m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *16.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 8/6// 9/23/28 for 70 mm **N>=50** | -13 | 17 | | | | | | | | | |
| | *17.85m:* CORE LOSS - Suspect washed out. | | | HQTT | 87 | | | | | | | | | | | | |
| | *18.00m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Dense to very dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 16/14// 10/16/14/9 **N=49** | -14 | 18 | | | | | | | | | |
| | | | | HQTT | 100 | | -15 | 19 | | | | | | | | | Box 16.00-19.95m |
| | | | | SPT | 100 | 9/6// 10/11/8/21 **N>=50** | | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 13.5 bgl.

Hole Depth 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH07

SHEET: 3 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Olympic

CO-ORDINATES: 168.31302800° (WGS84) -17.73601200°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 4.00m
R.L. COLLAR: 4.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 05/12/2025
FINISH DATE: 09/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log / Fracture Spacing (mm) / RQD (%) / Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *18.00m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; light brownish white. Dense to very dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 100 | | -17 | 21 | | | | | | |
| | | | | SPT | 100 | 6/10// 14/17/19 for 40 mm **N>=50** Bouncing | | | | | | | | |
| | | | | HQTT | 78 | | -18 | 22 | | | | | | |
| | *22.25m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | |
| | *22.50m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, medium grained. Recovered as: coarse GRAVEL, some sand; light brownish white. Dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 7/6// 10/11/12/6 **N=39** | -19 | 23 | | | | | | |
| | *23.30m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Silt infill. Recovered as: coarse GRAVEL, some sand, minor silt; light brownish white. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 81 | | | | | | | | | |
| | *23.80m:* CORE LOSS - Suspect washed out. | | | | | | -20 | 24 | | | | | | |
| | *24.00m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, well cemented, coarse grained. Silt infill. Recovered as: coarse GRAVEL, some sand, minor silt; brownish white. Medium dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 4/1// 4/4/9/10 **N=27** | | | | | | | | |
| | *24.60 - 25.05m:* Slightly weathered, white. | | | HQTT | 57 | | -21 | 25 | | | | | | |
| | *25.05m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | |
| | *25.50m:* Slightly weathered, white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; white. Medium dense to dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 6/8// 6/7/5/7 **N=25** | -22 | 26 | | | | | | |
| | | | | HQTT | 100 | | | | | | | | | |
| | | | | SPT | 100 | 6/5// 9/12/10/9 **N=40** | -23 | 27 | | | | | | |
| | | | | HQTT | 86 | | -24 | 28 | | | | | | |
| | *28.35m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | |
| | *28.50m:* Slightly weathered, white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; white. Medium dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 7/6// 7/7/9/12 **N=35** | -25 | 29 | | | | | | |
| | | | | HQTT | 90 | | | | | | | | | |

Box 19.95-24.45m

Box 24.45-28.95m

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 13.5 bgl.

**Hole Depth** 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH07

SHEET: 4 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Olympic

CO-ORDINATES: 168.31302800° (WGS84) -17.73601200°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 4.00m
R.L. COLLAR: 4.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 05/12/2025
FINISH DATE: 09/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *29.90m:* CORE LOSS - Suspect washed out.<br>*30.00m:* Slightly weathered, white, LIMESTONE. Extremely weak, well cemented, coarse grained. Recovered as: coarse GRAVEL, minor sand; white. Dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 9/15// 17/14/6/5 **N=42** | -27 | 31 | | | | | | | | | Box 28.95-31.50m |
| | | | | HQTT | 100 | | | | | | | | | | | | |
| | 31.5m: END OF BOREHOLE | | | | | | -28 | 32 | | | | | | | | | |
| | | | | | | | -29 | 33 | | | | | | | | | |
| | | | | | | | -30 | 34 | | | | | | | | | |
| | | | | | | | -31 | 35 | | | | | | | | | |
| | | | | | | | -32 | 36 | | | | | | | | | |
| | | | | | | | -33 | 37 | | | | | | | | | |
| | | | | | | | -34 | 38 | | | | | | | | | |
| | | | | | | | -35 | 39 | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. No water circulation the entire depth of borehole. The borehole was grouted at the end of day at 13.5 bgl.

Hole Depth 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH07**

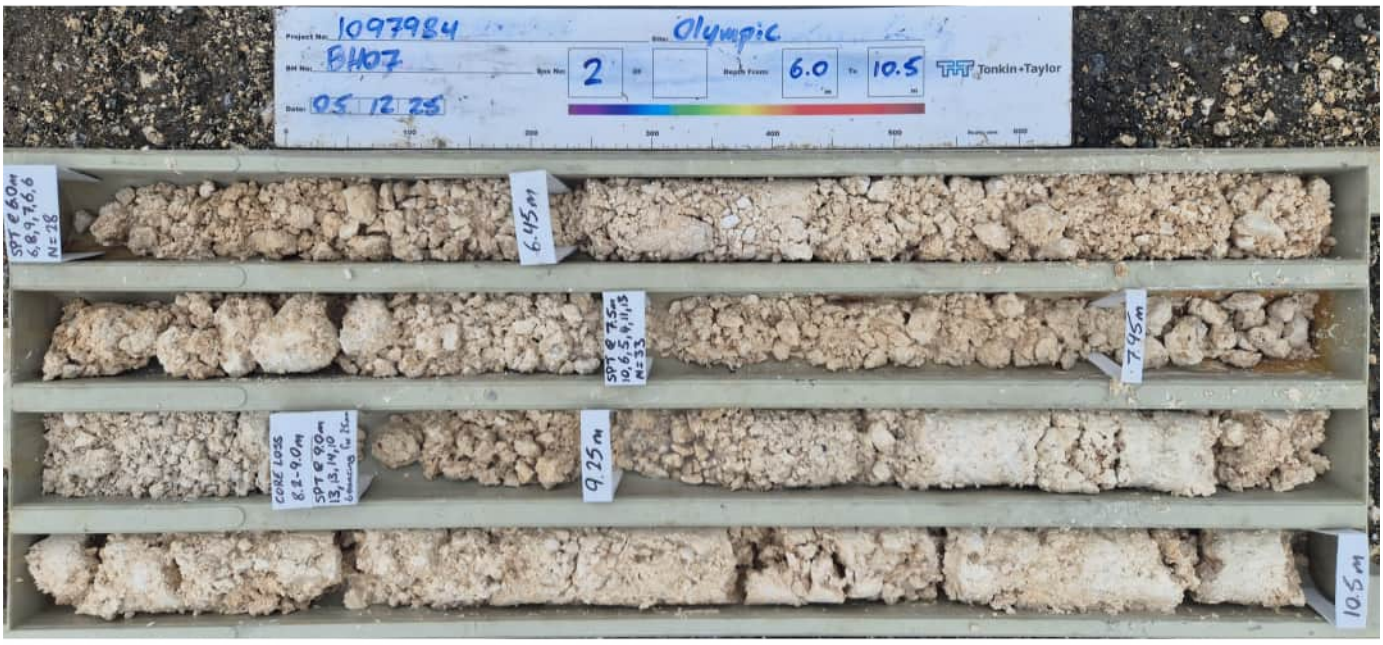
**Hole Location:** Olympic



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313028 (WGS84) -17.736012<br>R.L.: 4.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 05/12/2025<br>HOLE FINISHED: 09/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-6.00m




6.00-10.50m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

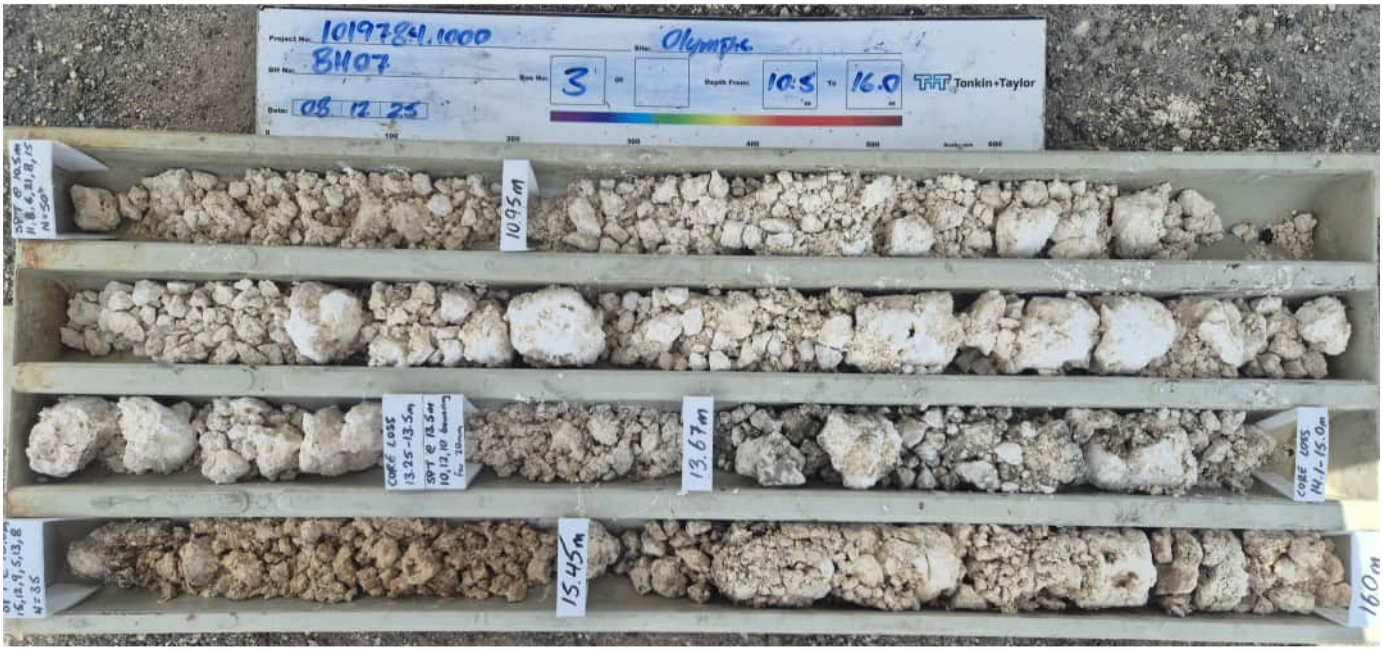
# CORE PHOTOS

BOREHOLE No.: **BH07**

**Hole Location:** Olympic



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313028 (WGS84) -17.736012<br>R.L.: 4.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 05/12/2025<br>HOLE FINISHED: 09/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




10.50-16.00m




16.00-19.95m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH07**

**Hole Location:** Olympic



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313028 (WGS84) -17.736012<br>R.L.: 4.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 05/12/2025<br>HOLE FINISHED: 09/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




19.95-24.45m




24.45-28.95m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH07**

**Hole Location:** Olympic



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.313028 (WGS84) -17.736012<br>R.L.: 4.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 05/12/2025<br>HOLE FINISHED: 09/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




28.95-31.50m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:43:46 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH08

SHEET: 1 OF 1

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Saralana Park

CO-ORDINATES: 168.31706812° -17.74584731° (WGS84)
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 35.60m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 30/01/2026
FINISH DATE: 31/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (HW SW MW DW CW EW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *0.00m:* CLAY, minor silt; dark brown. Soft to firm, moist, medium plasticity. | | | HQTT | 27 | | 35 | 0 | | | | | | | | | |
| | *0.35m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.45m:* CLAY, some silt; dark brown. Soft to firm, moist, medium plasticity. | | | SPT | 67 | 5/2// 2/0/1/1 N=4 | 34 | 1 | | | | | | | | | |
| | *1.50m:* CLAY and fine to coarse GRAVEL; dark brown and white. Very loose, moist, medium plasticity. Gravel, limestone. | | | | | | | | | | | | | | | | |
| | *1.95m:* CORE LOSS - Suspect washed out. *1.95 - 2.75m:* Potential void. | | | HQTT | 24 | | 33 | 2 | | | | | | | | | |
| Reef Limestone Formation | *2.75m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, minor silt; brownish white. Medium dense, moist, poorly graded. Gravel, sub-rounded, coral. [REEF LIMESTONE FORMATION] | | | SPT | 67 | 2/3// 5/2/2/1 N=10 | 32 | 3 | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *3.85m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented. Recovered as: fine to coarse GRAVEL, some cobbles; brownish white. Loosely packed, moist, poorly graded. Gravel, sub-angular, coral. | | | HQTT | 62 | | 31 | 4 | | | | | | | | | |
| | *4.50m:* Moderately weathered, brownish white. Extremely weak to very weak, poorly cemented, coarse grained. Recovered as: gravelly fine to coarse SAND; brownish white. Dense, moist, poorly graded; gravel, fine to coarse, coral. | | | SPT | 100 | 5/10// 11/8/6/6 N=31 | 30 | 5 | | | | | | | | | |
| | *4.95m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak to very weak, moderately cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some cobbles; brownish white. Medium dense, moist, poorly graded. Gravel, coral; cobbles, up to 110mm. | | | HQTT | 100 | | 29 | 6 | | | | | *6.00m:* 30/01/26. End of day, grouted back to surface to prevent collapse, improve deviation and improve circulation with 250 L lightly chipped grout. 31/01/26. Returned to 6m, hole deviating beyond tolerance of rig. | | | | Box 0.00-6.00m |
| | | | | SPT | 100 | 3/4// 5/7/4/6 N=22 | | | | | | | | | | | Box 6.00-6.45m |
| | 6.45m: Danger of damaging machine | | | | | | 26 | 9 | | | | | | | | | |

*0.25 - 0.35m:* Allophane content - 5 - 7 %

COMMENTS: Hole deviating away from vertical beyond machine tolerance. No water encountered

**Hole Depth** 6.45m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:47:14 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH08**

**Hole Location:** Saralana Park

SHEET: 1 OF 1

| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.3170681235202 (WGS84) -17.745847311499908<br>R.L.: 35.60m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 30/01/2026<br>HOLE FINISHED: 31/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-6.00m




6.00-6.45m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:47:14 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH08A

SHEET: 1 OF 1

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Saraland Park alternative

CO-ORDINATES: 168.31701180° (WGS84) -17.74591118°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 35.40m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 02/02/2026
FINISH DATE: 02/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *0.00m:* Organic CLAY, some silt; dark brown. Soft to firm, moist, medium plasticity. | | | | | | 35 | 0 | TS | | | | | | | | |
| | *0.35m:* CORE LOSS - Suspect washed out. | | | HQTT | 27 | | | 0.5 | | | | | | | | | |
| | *1.45m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL; brownish white. Very loose, dry, well graded. Gravel, sub-angular, coral. [REEF LIMESTONE FORMATION] | | | | | | 34 | 1 | | | | | | | | | |
| | *1.65m:* VOID. SPT dropped beyond test depth with one blow, limited recovery. | | | SPT | 44 | 1,0// 0,0/0/0 N=0 | | 1.5 | V0 V V0 V V0 V | | | | | | | | |
| | *2.40m:* Slightly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: COBBLES, some gravel; brownish white. Loosely packed, moist, poorly graded. Cobbles, up to 70mm, coral; gravel, fine to coarse. | | | HQTT | 57 | | 33 | 2 | | | | | | | | | |
| | *2.40 - 2.60m:* Recovered with minor brown clay. | | | | | | | 2.5 | | | | | | | | | Box 0.00-3.00m |
| | 3m: Danger of damaging machine | | | | | | 32 | 3 | | | | | | | | | |
| | | | | | | | | 3.5 | | | | | | | | | |
| | | | | | | | 31 | 4 | | | | | | | | | |
| | | | | | | | | 4.5 | | | | | | | | | |

COMMENTS: No circulation due to significant void encountered. Hole deviating beyond machine tolerance. No groundwater encountered

Hole Depth 3m

Scale 1:25

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:22:23 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH08A**

**Hole Location:** Saraland Park alternative

SHEET: 1 OF 1

| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31701179713085 (WGS84) -17.74591117608499<br>R.L.: 35.40m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 02/02/2026<br>HOLE FINISHED: 02/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-3.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:22:23 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH09

SHEET: 1 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reclamation Fill | *0.00m:* Sandy fine to coarse GRAVEL, trace rootlets; brown and white. Loosely packed, dry, poorly graded. Gravel, sub-rounded, Coral; sand, fine to coarse. [RECLAMATION FILL] | | | HQTT | 40 | | 1 | 0 | | | | | | | | | |
| | *0.20m:* Cobbly coarse GRAVEL, trace silt. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; cobbles, up to 120mm. | | | | | | | | | | | | | | | | |
| | *0.60m:* CORE LOSS - Suspect core bound. | | | | | | | | | | | | | | | | |
| | *1.50m:* Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loose to medium dense, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse. | | | SPT | 44 | 2/2 // 3/2/3/2 **N=10** | 0 | 1 | | | | | | | | | |
| | *1.70m:* NO RECOVERY - Confirmed slipped out of SPT spoon. | | | HQTT | 67 | | -1 | 2 | | | | | | | | | |
| | *1.95m:* Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse. | | | | | | | | | | | | | | | | |
| | *2.40m:* Coarse GRAVEL; black and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral, concrete and metal. | | | | | | | | | | | | | | | | |
| | *2.65m:* CORE LOSS - Suspect core bound. | | | SPT | 100 | 3/2 // 3/2/2/2 **N=9** | -2 | 3 | | | | | | | | | |
| | *3.00m:* Fine to coarse SAND, some silt; black. Loose, moist. | | | | | | | | | | | | | | | | |
| | *3.05m:* Gravelly fine to coarse SAND, some silt; light greyish white. Loose, moist, well graded. Sand, angular; gravel, fine to coarse, angular, basalt, Coral and Shell fragments. | | | HQTT | 10 | | -3 | 4 | | | | | | | | | |
| | *3.45m:* Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse. | | | | | | | | | | | | | | | | |
| | *3.55m:* CORE LOSS - Suspect washed out, coral sand and gravel. [PERI-REEF DEPOSITS] | | | | | | | | | | | | | | | | |
| Peri-reef Deposits | *4.50m:* Fine to coarse SAND, some gravel, trace silt; light greyish white. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular. | | | SPT | 100 | 3/3 // 4/3/5/6 **N=18** | -4 | 5 | | | | | *4.50 - 4.95m:* PSD - 27% gravel, 53% sand and 20% fines | | | | |
| | *5.15 - 5.25m:* Locally. Black organic staining. | | | | | | | | | | | | | | | | |
| | *5.25m:* CORE LOSS - Suspect washed out. | | | HQTT | 29 | | -5 | 6 | | | | | | | | | |
| | *6.00m:* Sandy fine to coarse GRAVEL, trace silt; brown and white. Loose, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse. | | | SPT | 100 | 2/1 // 3/2/1/1 **N=7** | -6 | 7 | | | | | | | | | |
| | *6.60m:* CORE LOSS - Suspect washed out. White coral SAND. | | | HQTT | 14 | | -7 | 8 | | | | | | | | | |
| | *7.50m:* Silty fine to medium SAND, some gravel; light brown. Loose to medium dense, moist, poorly graded; gravel, coarse, sub-rounded, Coral and Shell fragments. | | | SPT | 100 | 3/2 // 2/3/1/4 **N=10** | -8 | 9 | | | | | | | | | |
| | *8.10m:* CORE LOSS - Suspect washed out. | | | HQTT | 14 | | | | | | | | | | | | |
| | *9.00m:* Sandy SILT, some gravel; light brownish white. Soft, moist, non-plastic, dilatant; sand, fine to medium; gravel, fine to coarse, sub-rounded, Coral. | | | SPT | 100 | 2/1 // 0/1/0/1 **N=2** | | | | | | | *9.00 - 9.45m:* PSD - 31% gravel, 26% sand and 43% fines | | | | |
| | | | | HQTT | 86 | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 25, 50, 75 — 14/02/2026

Box 0.00-7.95m

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH09

SHEET: 2 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (UW SW MW HW CW EW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peri-reef Deposits | [CONT] *9.00m:* Sandy SILT, some gravel; light brownish white. Soft, moist, non-plastic, dilatant; sand, fine to medium; gravel, fine to coarse, sub-rounded, Coral. | | | HQTT | 86 | | -9 | | | | | | | | | | |
| | *10.35m:* CORE LOSS - Suspect core bound. | | | SPT | 100 | 2/1// 4/8/9/6 **N=27** | | | | | | | | | | | |
| | *10.50m:* Fine to coarse SAND, some silt and some gravel; light brownish white. Very loose to loose, moist, well graded, dilatant slow; gravel, fine to coarse, sub-rounded, Coral. | | | | | | | 11 | | | | | | | | | |
| | *10.70m:* Coarse GRAVEL, minor sand; white. Medium dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 29 | | -10 | | | | | | | | | | |
| | *10.95m:* Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse. | | | | | | | | | | | | | | | | |
| | *11.25m:* CORE LOSS - Suspect washed out. | | | SPT | 100 | 4/3// 3/2/2/1 **N=8** | | 12 | | | | | *12.00 - 12.45m:* PSD - 46% gravel, 26% sand and 28% fines | | | | |
| | *12.00m:* Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loose, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse. | | | | | | -11 | | | | | | | | | | |
| | *12.60m:* CORE LOSS - Suspect washed out. | | | HQTT | 14 | | | 13 | | | | | | | | | |
| | *13.50m:* Gravelly fine to coarse SAND, minor silt; light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments. | | | SPT | 105 | 3/3// 7/16/16/11 for 55mm **N>=50** Bouncing | -12 | | | | | | | | | | |
| | *13.70m:* Cobbly coarse GRAVEL, trace sand; white. Very dense, moist, poorly graded. Gravel, angular, Coral; cobbles, up to 150mm. | | | HQTT | 98 | | | 14 | | | | | | | | | Box 7.95-14.40m |
| | *15.00m:* Gravelly fine to coarse SAND, some silt; brownish grey. Loose, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments. | | | SPT | 100 | 4/2// 2/2/2/2 **N=8** | -13 | | | | | | *15.00 - 15.45m:* PSD - 32% gravel, 38% sand and 30% fines | | | | |
| | *15.45m:* Coarse GRAVEL, minor sand; white and light brown. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral. | | | | | | | 15 | | | | | | | | | |
| | *15.75m:* CORE LOSS - Suspect washed out. | | | HQTT | 29 | | -14 | | | | | | | | | | |
| | *16.50m:* Gravelly fine to coarse SAND, minor silt; light brownish grey. Loose to medium dense, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments. | | | SPT | 100 | 4/3// 3/3/2/2 **N=10** | | 16 | | | | | | | | | |
| | *17.00m:* Fine to coarse GRAVEL, minor sand; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded, Coral; sand, fine to coarse. | | | | | | -15 | | | | | | | | | | |
| | *17.25m:* CORE LOSS - Suspect washed out. | | | HQTT | 29 | | | 17 | | | | | | | | | |
| | *18.00m:* Sandy fine to coarse GRAVEL, trace silt; grey. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse. | | | SPT | 100 | 3/6// 8/27/15 for 30 mm **N>=50** | -16 | | | | | | | | | | |
| | *18.33m:* Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral; sand, fine to coarse. | | | | | | | 18 | | | | | | | | | |
| | *18.80m:* CORE LOSS - Suspect washed out. | | | HQTT | 40 | | -17 | | | | | | | | | | |
| | *19.50m:* Gravelly fine to coarse SAND; grey. Loose, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments. | | | SPT | 100 | 2/2// 1/1/1/3 **N=6** | | 19 | | | | | | | | | |
| | | | | | | | -18 | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH09

SHEET: 3 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peri-reef Deposits | *19.85m:* Fine to coarse SAND, some gravel, minor silt; brown. Loose, moist, well graded; gravel, fine to medium, angular, shell fragments. | | | HQTT | 86 | BH09_UCS @ 20.70m | -19 | | | | | | | | | | Box 14.40-20.50m |
| | *19.95m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *20.10m:* Fine to coarse SAND, some gravel, minor silt; grey. Loosely packed, moist, well graded; gravel, fine to medium, angular, shell fragments. | | | | | | | 21 | | | | | *20.70 - 20.90m:* UCS - 99 MPa | | | | |
| | *20.35m:* Slightly weathered, white, LIMESTONE. Weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | | | 20 for 20mm **N>=50** Solid Cone Bouncing Refusal | -20 | | | | | | | | | | |
| | *21.25m:* Slightly weathered, light brown, LIMESTONE. Extremely weak, poorly cemented. Soil description: coarse GRAVEL, some sand; light brown. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 34 | | | 22 | | | | | | | | | |
| | *21.50m:* CORE LOSS - Suspect washed out. Sandy coralline material. | | | | | | -21 | | | | | | | | | | |
| | | | | SPT | 0 | 1/1 // 0/3/5/9 **N=17** | | 23 | | | | | | | | | |
| Reef Limestone Formation | *23.30m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Soil description: fine to coarse GRAVEL, some sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 67 | | -22 | | | | | | | | | | |
| | | | | | | 20 for 20mm **N>=50** | | 24 | | | | | | | | | |
| | | | | HQTT | 61 | | -23 | | | | | | | | | | |
| | *24.90m:* CORE LOSS - Suspect core bound. | | | | | | | 25 | | | | | | | | | |
| | *25.50m:* Slightly weathered, light brownish white streaked black, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Soil description: fine to coarse GRAVEL, some sand, trace silt; light brownish white streaked black. Very dense, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse. | | | SPTC | 100 | 20/30// for 65mm **N>=50** Solid Cone | -24 | | | | | | | | | | |
| | | | | HQTT | 74 | | | 26 | | | | | | | | | |
| | *26.50m:* CORE LOSS - Suspect washed out. | | | | | | -25 | | | | | | | | | | |
| | | | | SPTC | 0 | 14/15// 13/9/16/12 for 65mm **N>=50** Solid Cone | | 27 | | | | | | | | | |
| | *28.00m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 47 | | -26 | | | | | | | | | | |
| | *28.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 12/15// 13/10/20/7 for 15mm **N>=50** Solid Cone | | 28 | | | | | | | | | |
| | *29.10m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 81 | | -27 | | | | | | | | | | |
| | | | | | | | | 29 | | | | | | | | | |
| | | | | | | | -28 | | | | | | | | | | Box 20.50-27.00m |

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH09

SHEET: 4 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION<br>SOIL: Classification, colour, consistency / density, moisture, plasticity<br>ROCK: Weathering, colour, fabric, name, strength, cementation | Rock Weathering (UW SW MW HW DW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *29.10m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 100 | | -29 | 31 | | | | | | | | | Box 27.00-31.00m |
| | 31m: END OF BOREHOLE | | | | | | -30 | 32 | | | | | | | | | |
| | | | | | | | -31 | 33 | | | | | | | | | |
| | | | | | | | -32 | 34 | | | | | | | | | |
| | | | | | | | -33 | 35 | | | | | | | | | |
| | | | | | | | -34 | 36 | | | | | | | | | |
| | | | | | | | -35 | 37 | | | | | | | | | |
| | | | | | | | -36 | 38 | | | | | | | | | |
| | | | | | | | -37 | 39 | | | | | | | | | |
| | | | | | | | -38 | | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH09**

**Hole Location:** Tana Russet



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31043899999995 (WGS84) -17.729564<br>R.L.: 1.40m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 11/02/2026<br>HOLE FINISHED: 12/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-7.95m




7.95-14.40m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH09**

**Hole Location:** Tana Russet



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31043899999995 (WGS84) -17.729564<br>R.L.: 1.40m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 11/02/2026<br>HOLE FINISHED: 12/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




14.40-20.50m




20.50-27.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH09**

**Hole Location:** Tana Russet



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31043899999995 (WGS84) -17.729564<br>R.L.: 1.40m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 11/02/2026<br>HOLE FINISHED: 12/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




27.00-31.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH10

SHEET: 1 OF 2

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Anchor Inn

CO-ORDINATES: 168.31123900° (WGS84) -17.73565100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.00m
R.L. COLLAR: 2.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 09/12/2025
FINISH DATE: 11/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reclamation Fill | *0.00m:* Gravelly fine to coarse SAND, trace silt; brown mixed white. Loosely packed, dry, poorly graded; gravel, fine to coarse, sub-angular, Coral and concrete. [RECLAMATION FILL] | | | HQTT | 50 | | 2 | 0 | | | | | | | | | |
| | *0.40m:* Fine to coarse GRAVEL, minor sand; white. Loosely packed, moist, poorly graded. Gravel, sub-rounded, Coral. | | | | | | | | | | | | | | | | |
| | *0.75m:* CORE LOSS - Suspect washed out. *0.00 - 1.50m:* Cuttings are Brown sand. | | | | | | | | | | | | | | | | |
| | *1.50m:* Fine to coarse GRAVEL, some sand, minor silt; light brownish white. Very dense, moist, poorly graded. Gravel, angular, Coral. | | | SPT | 100 | 3/2// 2/3/22/23 for 25mm **N>=50** Bouncing | 1 | -1 | | | | | | | | | |
| | *1.90m:* CORE LOSS - Suspect washed out. *1.60 - 1.75m:* Dark brown. | | | | | | | | | | | | | | | | |
| Peri-reef Deposits | *2.35m:* Fine to coarse GRAVEL, some sand, minor silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded, Coral. [PERI-REEF DEPOSITS] | | | HQTT | 59 | | 0 | -2 | | | | | | | | | |
| | *2.75m:* COBBLES, some gravel, minor silt; light brownish white. Very dense, moist, poorly graded. Cobbles, up to 150mm, sub-angular, coral reef. | | | | | 10 for 20mm **N>=50** Bouncing Refusal | -1 | -3 | | | | | | | | | |
| | *3.60m:* CORE LOSS - Obstruction (recovered) in front of barrel. *3.00 - 4.50m:* Cuttings are Light Brownish white sand and fine gravel comprising coral. | | | HQTT | 41 | | -2 | -4 | | | | | | | | | |
| | *4.50m:* Gravelly fine to coarse SAND, minor silt; light brownish white. Dense, moist, poorly graded; gravel, fine to coarse, sub-angular, Coral. | | | SPT | 100 | 7/11// 13/5/ 9/11 **N=38** | -3 | -5 | | | | | | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. Poorly cemented Limestone sand. | | | | | | | | | | | | | | | | |
| | *5.65m:* Fine to coarse GRAVEL, some sand, minor silt; light brownish white. Loose to medium dense, moist, poorly graded. Gravel, sub-angular, Coral. | | | HQTT | 33 | | -4 | -6 | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *7.05m:* Fine to coarse GRAVEL, some sand, minor silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral. | | | SPT | 100 | 2/7// 3/2/2/3 **N=10** | -5 | -7 | | | | | | | | | |
| | *7.50m:* Fine to coarse SAND, some gravel, minor silt; light brown. Very loose, moist, poorly graded; gravel, fine to coarse, sub-rounded, Coral and shell fragments. | | | HQTT | 43 | | | | | | | | | | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. Poorly cemented Limestone sand. | | | | | | | | | | | | | | | | |
| Reef Limestone Formation | *8.25m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | HQTT | 71 | 1.0// 0/1/0/2 **N=3** | -6 | -8 | | | | | *8.69 - 8.90m:* UCS - 7.6 MPa | | | | |
| | | | | | | BH10_UCS @ 8.69m | | | | | | | | | | | |
| | | | | SPT | 100 | 3/3// 8/8/7/4 **N=27** | -7 | -9 | | | | | | | | | |
| | *9.45m:* CORE LOSS - Suspect washed out. Poorly cemented Limestone sand. | | | HQTT | 76 | | | | | | | | | | | | |
| | *9.70m:* Slightly weathered, light brownish white, LIMESTONE. | | | | | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 11/12/2025

Box 0.00-6.45m

COMMENTS: 1. Borehole has piezometer installation from 3 - 6 m. 2. No water circulation the entire depth of borehole.

Hole Depth 20m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:41:54 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH10

SHEET: 2 OF 2

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Anchor Inn

CO-ORDINATES: 168.31123900° (WGS84) -17.73565100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.00m
R.L. COLLAR: 2.00m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 09/12/2025
FINISH DATE: 11/12/2025
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | Extremely weak, well cemented, coarse grained. Interbedded with: gravelly fine to coarse SAND, minor silt; light brownish white. Very dense, moist, well graded; gravel, fine to coarse, sub-rounded, Coral. | | | HQTT | 76 | 20 for 60mm N>=50 Bouncing Refusal | -9 | 11 | | | | | | | | | |
| | *10.65m:* Unweathered, light brownish white, LIMESTONE. Weak, well cemented, coarse grained. | | | HQTT | 100 | BH10_UCS @ 10.80m | | | | | | | *10.80 - 11. 10m:* UCS - 11.9 MPa | | | | Box 6.45-11.10m |
| | | | | HQTT | 100 | 10 for 20mm N>=50 Solid Cone Bouncing Refusal | -10 | 12 | | | | | | | | | |
| | | | | HQTT | 100 | 10 for 25mm N>=50 Solid Cone Bouncing Refusal | -11 | 13 | | | | | | | | | |
| | | | | HQTT | 100 | 10 for 20mm N>=50 Solid Cone Bouncing Refusal | -12 | 14 | | | | | | | | | Box 11.10-15.00m |
| | | | | HQTT | 100 | 20 for 30mm N>=50 Solid Cone Bouncing Refusal | -13 | 15 | | | | | | | | | |
| | | | | HQTT | 100 | 10 for 40mm N>=50 Solid Cone Bouncing Refusal | -14 | 16 | | | | | | | | | |
| | *19.00m:* CORE LOSS - Suspect material left in bottom of hole, washed out on subsequent run. | | | HQTT | 72 | | -15 | 17 | | | | | | | | | Box 15.00-19.00m |
| | *19.45m:* Unweathered, white, LIMESTONE. Very weak, well cemented, coarse grained. Vesicular (10% voids). | | | HQTT | 100 | | -16 | 18 | | | | | | | | | |
| | 20m: END OF BOREHOLE | | | | | | -17 | 19 | VO V | | | | | | | | Box 19.00-20.00m |

COMMENTS: 1. Borehole has piezometer installation from 3 - 6 m. 2. No water circulation the entire depth of borehole.

Hole Depth 20m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:41:54 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH10**

**Hole Location:** Anchor Inn



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.311239 (WGS84) -17.735650999999997<br>R.L.: 2.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 09/12/2025<br>HOLE FINISHED: 11/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-6.45m




6.45-11.10m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:41:54 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH10**

**Hole Location:** Anchor Inn



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.311239 (WGS84) -17.735650999999997<br>R.L.: 2.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 09/12/2025<br>HOLE FINISHED: 11/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




11.10-15.00m




15.00-19.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:41:54 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH10**

**Hole Location:** Anchor Inn



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.311239 (WGS84) -17.735650999999997<br>R.L.: 2.00m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 09/12/2025<br>HOLE FINISHED: 11/12/2025<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




19.00-20.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:41:54 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH11

SHEET: 1 OF 3

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: St Jean D'arc School

CO-ORDINATES: 168.31679900° (WGS84)
-17.73494100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 51.10m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 19/01/2026
FINISH DATE: 21/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fill | *0.00m:* SILT, trace gravel; dark brown. Soft to firm, moist; gravel, fine, up to 4mm, limestone. [FILL] | | | | | | | | | | | | *0.00 - 0.40m:* Atterberg Limits - LL = 82, PL = 39, and PI = 43 Allophane content - 5 - 7% | | | | |
| Reef Limestone Formation | *0.43m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand, minor silt; brownish white. Tightly packed, dry, poorly graded. Gravel, sub-angular, limestone. [REEF LIMESTONE FORMATION] | | | HQTT | 61 | | 51 | 0 | | | | | | | | | |
| | *0.92m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.50m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, some silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone. | | | SPT | 100 | 5/15// 9/6/8/6 **N=29** | 50 | 1 | | | | | | | | | |
| | *1.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 10 | | 49 | 2 | | | | | | | | | |
| | *2.90m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone and shell fragments. | | | SPT | 82 | 14/14// 10/4/ 4/10 **N=28** | 48 | 3 | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 24 | | 47 | 4 | | | | | | | | | |
| | *4.25m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, trace silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone and shell fragments. | | | SPT | 71 | 3/2// 4/3/2/3 **N=12** | 46 | 5 | | | | | | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *5.10m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; brownish white. Very dense, dry, well graded. Gravel, limestone and shell fragments. | | | HQTT | 86 | | 45 | 6 | | | | | | | | | Box 0.00-6.00m |
| | | | | SPT | 89 | 10/4// 11/19/18/20 **N>=50** | | | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 12 | | 44 | 7 | | | | | | | | | |
| | *7.37m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL; brownish white. Dense, dry, poorly graded. Gravel, sub-angular, limestone. | | | SPT | 89 | 6/5// 11/8/ 14/8 **N=41** | 43 | 8 | | | | | | DRY 19/01/2026 | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 38 | | | | | | | | | | | | |
| | *8.60m:* Moderately weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand, minor silt; light brown. Medium dense, dry, well graded. Gravel, sub-angular, limestone. | | | SPT | 78 | 6/4// 5/6/7/5 **N=23** | 42 | 9 | | | | | | | | | |
| | *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 76 | | | | | | | | | | | | |
| | *9.70m:* Moderately weathered, light brown, LIMESTONE. | | | | | | | | | | | | | | | | |

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

**Hole Depth** 23.2m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH11

SHEET: 2 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: St Jean D'arc School

CO-ORDINATES: 168.31679900° (WGS84)
-17.73494100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 51.10m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 19/01/2026
FINISH DATE: 21/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; light brown. Medium dense, dry, poorly graded. Gravel, sub-angular, limestone. | | | HQTT | 76 | | 41 | | | | | | | | | | |
| | | | | SPT | 67 | 7,5// 6,5/4/3 N=18 | | | | | | | | | | | |
| | *10.95m:* CORE LOSS - Suspect washed out. | | | | | | 40 | 11 | | | | | | | | | |
| | *11.05m:* Moderately weathered, light brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained. | | | HQTT | 90 | BH11_UCS @ 11.65m | | | | | | | *11.65 - 11.76m:* UCS - 3.8 MPa | | | | Box 6.00-11.65m |
| | | | | SPT | 100 | 5,2// 2,4/3/2 N=11 | 39 | 12 | | | | | | | | | |
| | *12.45m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *12.70m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak to very weak, well cemented, coarse grained. | | | HQTT | 76 | | 38 | 13 | | | | | | | | | |
| | | | | SPT | 89 | 6/10// 6/13,9/16 N=44 | | | | | | | | | | | |
| | *13.95m:* CORE LOSS - Suspect washed out. | | | | | | 37 | 14 | | | | | | | | | |
| | *14.05m:* Moderately weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 90 | | | | | | | | | | | | |
| | | | | SPT | 89 | 4,6// 17/28/24/13 N>=50 | 36 | 15 | | | | | | | | | Box 11.65-15.45m |
| | *15.45m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *15.70m:* Moderately weathered, white and brown, LIMESTONE. Very weak, well cemented, coarse grained. | | | HQTT | 76 | | 35 | 16 | | | | | | | | | |
| | | | | SPT | 8 | 12/14// 7/7/6/7 N=27 | | | | | | | | | | | |
| | *16.95m:* CORE LOSS - Suspect washed out. | | | | | | 34 | 17 | | | | | | | | | |
| | *17.10m:* Moderately weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand; light brown. Loosely packed, moist, poorly graded. Gravel, angular, limestone. | | | HQTT | 86 | | | | | | | | | | | | |
| | *17.60m:* Moderately weathered, brown and white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | SPT | 78 | 7/12// 9/11/17/10 N=47 | 33 | 18 | | | | | | | | | |
| | *18.45m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *18.70m:* Moderately weathered, brown and white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 76 | | 32 | 19 | | | | | | | | | |
| | *19.50m:* CORE LOSS - Suspect washed out. | | | HQTT | 100 | | | | | | | | | | | | Box 15.45-20.00m |

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

**Hole Depth** 23.2m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH11

SHEET: 3 OF 3

| | | |
|---|---|---|
| PROJECT: EEETA | CO-ORDINATES: 168.31679900° (WGS84) -17.73494100° | R.L. GROUND: 51.10m |
| JOB No.: 1097984.1000.2000 | | R.L. COLLAR: |
| LOCATION: St Jean D'arc School | DIRECTION: 180° | DATUM: ELLIPSOID |
| | ANGLE FROM HORIZ.: -90° | SURVEY: Map or aerial photograph |

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 19/01/2026
FINISH DATE: 21/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *19.95m:* Moderately weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 40 | | 31 | | | | | | *20.00m:* 20/01/26. Vibrating due to no circulation. Rods pulled. 300 L of grout back to 13 m bgl. | DRY 21/01/2026 | | | Box 20.00-23.20m |
| | *20.40m:* CORE LOSS - Suspect washed out, loose limestone gravels. | | | | | | 30 | 21 | | | | | | | | | |
| | *21.85m:* Moderately weathered, white stained brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained. | | | HQTT | 43 | | 29 | 22 | | | | | | | | | |
| | *22.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *22.70m:* Slightly weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. | | | HQTT | 71 | | 28 | 23 | | | | | | | | | |
| | 23.2m: Danger of damaging machine | | | | | | 27 | 24 | | | | | *23.20m:* 21/01/26. Lost circulation. Bit getting stuck. Rods pulled and hole terminated. | | | | |
| | | | | | | | 26 | 25 | | | | | | | | | |
| | | | | | | | 25 | 26 | | | | | | | | | |
| | | | | | | | 24 | 27 | | | | | | | | | |
| | | | | | | | 23 | 28 | | | | | | | | | |
| | | | | | | | 22 | 29 | | | | | | | | | |

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

**Hole Depth** 23.2m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH11**

**Hole Location:** St Jean D'arc School



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.316799 (WGS84) -17.734940999999996<br>R.L.: 51.10m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 19/01/2026<br>HOLE FINISHED: 21/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-6.00m




6.00-11.65m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH11**

**Hole Location:** St Jean D'arc School



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.316799 (WGS84) -17.734940999999996<br>R.L.: 51.10m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 19/01/2026<br>HOLE FINISHED: 21/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




11.65-15.45m




15.45-20.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

Tonkin+Taylor

# CORE PHOTOS

BOREHOLE No.: **BH11**

**Hole Location:** St Jean D'arc School



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.316799 (WGS84) -17.734940999999996<br>R.L.: 51.10m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 19/01/2026<br>HOLE FINISHED: 21/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




20.00-23.20m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH12

SHEET: 1 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Vanuatu Supreme Court

CO-ORDINATES: 168.31933700° (WGS84) -17.73557400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 73.20m
R.L. COLLAR: 73.20m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 16/02/2026
FINISH DATE: 17/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fill | *0.00m:* Coarse GRAVEL; grey and white. Loosely packed, moist. Gravel, Concrete and coral; fill, concrete fragments. [FILL] | | | HQTT | 40 | | 73 | 0 | | | | | | | | | |
| | *0.10m:* Medium to coarse GRAVEL, some sand, trace clay; light brownish white and reddish brown. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral. [REEF LIMESTONE FORMATION] | | | | | | | | | | | | | | | | |
| | *0.60m:* CORE LOSS - Suspect washed out. | | | | | | 72 | 1 | | | | | | | | | |
| Reef Limestone Formation | *1.50m:* Fine to coarse GRAVEL, some sand, trace silt; white and brown and black. Medium dense, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral. | | | SPT | 100 | 6/5// 3/3/4/4 N=14 | | | | | | | | | | | |
| | *2.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 48 | | 71 | 2 | | | | | | | | | |
| | *3.00m:* Fine to coarse GRAVEL, some sand, trace silt; white, brown and black. Medium dense, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral. | | | SPT | 100 | 6/4// 2/3/3/5 N=13 | | | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. | | | | | | 70 | 3 | | | | | | | | | |
| | *3.60m:* Sandy fine to coarse GRAVEL, minor silt; light grey and white. Loosely packed, moist, well graded. Gravel, sub-angular, Coral. | | | HQTT | 86 | | | | | | | | | | | | |
| | *4.05m:* Highly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand; light brownish white. Medium dense, moist, poorly graded. Gravel, sub-angular. | | | SPT | 100 | 4/2// 4/4/4/4 N=16 | 69 | 4 | | | | | | | | | |
| | *5.10m:* CORE LOSS - Suspect core bound, washed away weathered tuff. [EFATE PUMICE FORMATION] | | | HQTT | 14 | | 68 | 5 | | | | | *5.50 - 13.50m:* Brown silt cuttings | | | | |
| Efate Pumice Formation | *6.00m:* Completely weathered, brown mixed white, TUFF. Extremely weak. Pumacious. Soil description: SILT, some gravel, minor clay and minor sand; brown mixed white. Stiff, moist, medium plasticity; gravel, fine to coarse, extremely weak, tuff and coral. | | | SPT | 100 | 1/1// 2/1/3/2 N=8 | 67 | 6 | | | | | | | | | Box 0.00-6.80m |
| | *7.00m:* Completely weathered, brown, TUFF. Extremely weak. Pumacious. Soil description: SILT, some clay, trace sand; brown. Stiff, moist, high plasticity. | | | HQTT | 100 | | 66 | 7 | | | | | | | | | |
| | | | | SPT | 100 | 2/2// 3/2/3/2 N=10 | | | | | | | *7.50 - 7.95m:* Atterberg Limits - LL = 115, PL = 86, and PI = 29 | | | | |
| | *8.10m:* Completely weathered, light brown banded orange and grey, TUFF. Extremely weak. Pumicious. Soil description: sandy SILT; light brown banded orange and grey. Stiff, moist, non-plastic, volcanic flecks. Laminations at 40 to 50 deg; sand, fine to medium. | | | HQTT | 100 | | 65 | 8 | | | | | *8.60m:* BF, 50°, PL, SM, Cn | | | | |
| | | | | SPT | 100 | 3/2// 2/2/2/1 N=7 | 64 | 9 | | | | | *9.00 - 9.45m:* Allophane content - 5 - 7 % | | | | |
| | | | | HQTT | 100 | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 25, 50, 75; 17/02/2026 Drilling fluid

COMMENTS: 1. Borehole has downhole geophysics installation. 2. Water circulation maintained after 5 m bgl

Hole Depth 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH12

SHEET: 2 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Vanuatu Supreme Court

CO-ORDINATES: 168.31933700° (WGS84) -17.73557400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 73.20m
R.L. COLLAR: 73.20m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 16/02/2026
FINISH DATE: 17/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (UW SW MW HW CW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Efate Pumice Formation | [CONT] *8.10m:* Completely weathered, light brown banded orange and grey, TUFF. Extremely weak. Pumicious. Soil description: sandy SILT; light brown banded orange and grey. Stiff, moist, non-plastic, volcanic flecks. Laminations at 40 to 50 deg; sand, fine to medium. | | | HQTT | 100 | | 63 | | | | | | *10.05m:* BF, 40°, PL, SM, Cn | | | | Box 6.80-10.50m |
| | *10.50m:* Completely weathered, brownish orange speckled black, TUFF. Extremely weak. Pumacious. Soil description: SILT, some gravel; brownish orange speckled black. Stiff, moist, non-plastic, volcanic flecks. Laminations at 40 to 50 deg; gravel, coarse, angular, Tuff. | | | SPT | 100 | 2/3// 2/2/3/3 **N=10** | 62 | 11 | | | | | | | | | |
| | *11.40m:* Highly weathered, brownish grey speckled black, TUFF. Extremely weak, pumacious with volcanic flecks. Soil description: SILT, some sand and some gravel; brownish grey speckled black. Very stiff to hard, moist, non-plastic; gravel, fine to coarse, very weak, Tuff. | | | HQTT | 100 | | | | | | | | *11.30m:* BF, 50°, PL, SM, Cn<br>*11.40m:* BF, 50°, PL, SM, Cn | | | | |
| | | | | SPTC | 100 | 4/5// 5/6/6/8 **N=25** Solid Cone | 61 | 12 | | | | | | | | | |
| | *13.15m:* Slightly weathered, grey banded black, TUFF. Very weak, laminations at 10 to 20 deg. | | | HQTT | 100 | | | 13 | | | | 33 | | | | | |
| | | | | SPT | 100 | 20/30// for 45mm **N>=50** Solid Cone Bouncing | 60 | | | | | | | | | | |
| | | | | HQTT | 100 | BH12_Triaxial @ 14.11m | 59 | 14 | | | | 94 | | | | | Box 10.50-14.40m |
| | *14.60m:* Slightly weathered, dark grey banded black, TUFF. Very weak, unwelded, laminations at 10 to 20 deg. Breaks down to silt between fingers. | | | SPT | 100 | 30/20// for 25mm **N>=50** Solid Cone Bouncing | 58 | 15 | | | | | *15.20m:* J, 50°, PL, SM, Cn | | | | |
| | *15.30 - 15.80m:* Light grey. | | | HQTT | 100 | | 57 | 16 | | | | 85 | *15.75m:* BF, 15°, PL, SM, Cn<br>*16.10m:* BF, 20°, PL, SM, Cn<br>*16.30m:* J, 70°, PL, SM, Cn | | | | |
| | | | | SPT | 100 | 40/10// for 5 mm **N>=50** Solid Cone | 56 | 17 | | | | | | | | | |
| | *16.90 - 17.50m:* Light grey. | | | HQTT | 100 | | | | | | | 95 | | | | | Box 14.40-18.00m |
| | | | | SPT | 100 | 30/20// for 25mm **N>=50** Solid Cone | 55 | 18 | | | | | | | | | |
| | | | | HQTT | 100 | | 54 | 19 | | | | 100 | | | | | |
| | *19.70 - 20.00m:* Light grey. | | | HQTT | 100 | | | | | | | 100 | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. Water circulation maintained after 5 m bgl

**Hole Depth** 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH12

SHEET: 3 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Vanuatu Supreme Court

CO-ORDINATES: 168.31933700° (WGS84) -17.73557400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 73.20m
R.L. COLLAR: 73.20m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 16/02/2026
FINISH DATE: 17/02/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Efate Pumice Formation | [CONT] *14.60m:* Slightly weathered, dark grey banded black, TUFF. Very weak, unwelded, laminations at 10 to 20 deg. Breaks down to silt between fingers. | | | HQTT | 100 | | 53 | 20 | | | | 100 | | | | | |
| | *21.55 - 22.40m:* Light grey. | | | HQTT | 100 | | 52 | 21 | | | | 100 | | | | | |
| | *21.90 - 22.10m:* Calcite veins less than 1 mm thick. | | | | | | | | | | | | | | | | Box 18.00-21.90m |
| | *22.70 - 23.20m:* Black coarse sand beds, 1 to 5 cm thick. | | | HQTT | 100 | | 51 | 22 | | | | | | | | | |
| | | | | | | | 50 | 23 | | | | 70 | | | | | |
| | *24.85m:* Slightly weathered, light grey banded black, TUFF. Weak, densely welded, fine grained, volcanic flecks. Breaks down to silt between fingers. | | | HQTT | 100 | BH12_Triaxial @ 25.08m | 49 | 24 | | | | 90 | | | | | |
| | *25.30m:* Slightly weathered, dark grey banded black, TUFF. Very weak, unwelded, fine grained, breaks down to silt between fingers. | | | | | | 48 | 25 | | | | | *25.00m:* J, 60°, PL, SM, Cn | | | | Box 21.90-25.50m |
| | *26.15m:* Slightly weathered, grey mixed red and orange, volcaniclastic BRECCIA. Very weak, fine to coarse grained, volcaniclastic clasts up to 50 mm. | | | HQTT | 100 | | 47 | 26 | | | | 100 | | | | | |
| | *26.30m:* Slightly weathered, grey spotted orange and white, TUFF. Weak, moderately welded, fine grained, volcaniclastic clasts up to 20 mm, in bands up to 80 mm thick. | | | | | | | | | | | | | | | | |
| | *27.20m:* Slightly weathered, light grey banded black, TUFF. Weak, moderately welded, fine grained, volcaniclastic clasts up to 10 mm. Laminations at 10 degrees. Breaks down to silt between fingers. | | | HQTT | 100 | | 46 | 27 | | | | 100 | | | | | |
| | *28.30 - 29.50m:* Dark grey with black bands. | | | | | | 45 | 28 | | | | 100 | | | | | Box 25.50-29.00m |
| | *29.40 - 30.10m:* Black and orange coarse sand and pumice bed. 5 cm thick. | | | HQTT | 100 | BH12_triaxial @ 29.70m | 44 | 29 | | | | 93 | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. Water circulation maintained after 5 m bgl

Hole Depth 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH12

SHEET: 4 OF 4

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: Vanuatu Supreme Court

CO-ORDINATES: 168.31933700° (WGS84) -17.73557400°

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 73.20m

R.L. COLLAR: 73.20m

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: COCU

CHECKED: CRB

START DATE: 16/02/2026

FINISH DATE: 17/02/2026

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION<br>SOIL: Classification, colour, consistency / density, moisture, plasticity<br>ROCK: Weathering, colour, fabric, name, strength, cementation | Rock Weathering (UW SW MW HW CW DW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Efate Pumice Formation | [CONT] *27.20m:* Slightly weathered, light grey banded black, TUFF. Weak, moderately welded, fine grained, volcaniclastic clasts up to 10 mm. Laminations at 10 degrees. Breaks down to silt between fingers. | | | HQTT | 100 | | 43 | | | | | 100 | | | | | |
| | *31.00m:* Slightly weathered, light grey banded orange, TUFF. Weak, moderately welded, medium grained, breaks down to sand between fingers. | | | | | | 42 | 31 | | | | | | | | | Box 29.00-31.50m |
| | 31.5m: END OF BOREHOLE | | | | | | 41 | 32 | | | | | *31.50m:* Suspected drilling fluid in borehole 24 hours after completion. Groundwater tabe below base of borehole | | | | |
| | | | | | | | 40 | 33 | | | | | | | | | |
| | | | | | | | 39 | 34 | | | | | | | | | |
| | | | | | | | 38 | 35 | | | | | | | | | |
| | | | | | | | 37 | 36 | | | | | | | | | |
| | | | | | | | 36 | 37 | | | | | | | | | |
| | | | | | | | 35 | 38 | | | | | | | | | |
| | | | | | | | 34 | 39 | | | | | | | | | |

COMMENTS: 1. Borehole has downhole geophysics installation. 2. Water circulation maintained after 5 m bgl

**Hole Depth** 31.5m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH12**

**Hole Location:** Vanuatu Supreme Court



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.319337 (WGS84) -17.735573999999996<br>R.L.: 73.20m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 16/02/2026<br>HOLE FINISHED: 17/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




0.00-6.80m




6.80-10.50m

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH12**

**Hole Location:** Vanuatu Supreme Court



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.319337 (WGS84) -17.735573999999996<br>R.L.: 73.20m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 16/02/2026<br>HOLE FINISHED: 17/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




10.50-14.40m




14.40-18.00m

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH12**

**Hole Location:** Vanuatu Supreme Court



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.319337 (WGS84) -17.735573999999996<br>R.L.: 73.20m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 16/02/2026<br>HOLE FINISHED: 17/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




18.00-21.90m




21.90-25.50m

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH12**

**Hole Location:** Vanuatu Supreme Court



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.319337 (WGS84) -17.735573999999996<br>R.L.: 73.20m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 16/02/2026<br>HOLE FINISHED: 17/02/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: COCU CHECKED: CRB |




25.50-29.00m




29.00-31.50m

TTNZ_20251211 - GeneralLog - 7/05/2026 3:10:34 pm - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH12A

SHEET: 1 OF 2

PROJECT: EEETA

JOB No.: 1097984.1000.2000

LOCATION: Public prosecutors office

CO-ORDINATES: 168.31880674° -17.73562096° (WGS84)

DIRECTION: 180°

ANGLE FROM HORIZ.: -90°

R.L. GROUND: 68.30m

R.L. COLLAR:

DATUM: ELLIPSOID

SURVEY: Map or aerial photograph

DRILLED BY: Jono

LOGGED BY: REOL

CHECKED: CRB

START DATE: 26/01/2026

FINISH DATE: 30/01/2026

CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering | Rock Strength | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | *0.00m:* Gravelly fine to coarse SAND; dark brown. Loosely packed, moist; gravel, fine to coarse, limestone. | | | HQTT | 30 | | 68 | 0 | | | | | | | | | |
| | *0.20m:* SILT; dark brown. Soft to firm, moist. | | | | | | | | | | | | | | | | |
| | *0.25m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *1.30m:* Slightly weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained. [REEF LIMESTONE FORMATION] | | | SPT / HQTT | 96 / 87 | 6/20// for 40mm **N>=50** Bouncing Refusal | 67 | 1 / 2 | | | | | | | | | |
| | *3.00m:* Highly weathered, brown and white, LIMESTONE. Extremely weak, poorly cemented. Recovered as: sandy fine to coarse GRAVEL; brown and white. Medium dense, moist, poorly graded. Gravel, coral. | | | SPT | 67 | 2/3// 3/3/3/5 **N=14** | 66 | 2 / 3 | | | | | | | | | |
| | *3.50m:* CORE LOSS - Suspect washed out. | | | HQTT | 14 | | 65 | 3 / 4 | | | | | *3.45m:* 26/01/26 Vibration due to loss of circulation. Rods pulled. Grouted with 400 L, to 3.35 m. 27/01/26. Hole regrouted to surface with lightly woodchipped grout. | | | | |
| | *3.45 - 3.50m:* Sand and fines washed out. Grey from grouting above. | | | | | | | | | | | | | | | | |
| | *4.40m:* Highly weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: gravelly fine to coarse SAND; light brown. Medium dense, moist, poorly graded; gravel, fine to coarse, sub-angular, coral. | | | SPT | 100 | 4/3// 2/4/5/3 **N=14** | 64 | 4 / 5 | | | | | | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 29 | | 63 | 5 / 6 | | | | | | | | | |
| | *5.70m:* Highly weathered, light brown, LIMESTONE. Extremely weak, poorly cemented. Recovered as: gravelly fine to coarse SAND; light brown. Dense, moist, poorly graded; gravel, fine to coarse, sub-angular, coral. | | | SPT | 100 | 6/7// 12/9/5/6 **N=32** | 62 | 6 / 7 | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 90 | | 61 | 7 / 8 | | | | | | | | | Box 0.00-6.45m |
| | *6.55m:* Highly weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: gravelly fine to coarse SAND; brownish white. Loose, moist, poorly graded; gravel, fine to medium, sub-angular, coral. | | | SPT | 100 | 3/2// 1/2/3/3 **N=9** | 60 | 8 / 9 | | | | | | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 76 | | 59 | 9 / 10 | | | | | | | | | |
| | *8.20m:* Highly weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: gravelly fine to coarse SAND; light brown. Loosely packed, moist, poorly graded; gravel, fine to medium, sub-angular, coral. | | | | | | | | | | | | | | | | |
| | *8.70m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, some cobbles; brownish white. Medium dense, moist, poorly graded. Gravel, sub-angular, coral; cobbles, up to 70mm. | | | SPT | 100 | 4/2// 5/4/7/8 **N=24** | | | | | | | | | | | | |
| | *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 19 | | | | | | | | *9.45m:* 28/01/26. No circulation. Rods pulled. Grouted to surface with 300L of lightly woodchipped grout. 29/01/26. Grout redrilled to 4.5 m, loosing circulation at 3m. Used 5 inch reamer to widen hole and install 4 inch PVC grouted in to 4.5 m. | | | | |

COMMENTS: Hole collapsed back to 10.8 m. No water encountered.

Hole Depth 12m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:54:56 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH12A

SHEET: 2 OF 2

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Public prosecutors office

CO-ORDINATES: 168.31880674° (WGS84) -17.73562096°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 68.30m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 26/01/2026
FINISH DATE: 30/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (UW SW MW HW CW EW RS) | Rock Strength (VS+ S MS W VW EW) | Sampling Method | Core Recovery (%) | Testing | RL (m) | Depth (m) | Graphic Log | ROCK MASS DISCONTINUITIES: Defect Log | Fracture Spacing (mm) (2000 600 200 60 20) | RQD (%) | Description & Additional Observations | Water Level / Fluid Loss (%) (25 50 75) | Casing | Installation | Core Box No |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 19 | | 58 | | | | | | | | | | |
| | *10.30m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand; brownish white. Medium dense, moist, poorly graded. Gravel, sub-angular, coral. | | | SPT | 100 | 2/3// 3/4/5/10 **N=22** | | | | | | | | | | | |
| | *10.95m:* CORE LOSS - Suspect washed out. | | | HQTT | 0 | | 57 | 11 | | | | | *10.80 - 12.00m:* Hole collapsed back to 10.8m. Rods pulled, hole terminated | | | | Box 6.45-12.00m |
| | 12m: Collapse | | | | | | 56 | 12 | | | | | | | | | |
| | | | | | | | 55 | 13 | | | | | | | | | |
| | | | | | | | 54 | 14 | | | | | | | | | |
| | | | | | | | 53 | 15 | | | | | | | | | |
| | | | | | | | 52 | 16 | | | | | | | | | |
| | | | | | | | 51 | 17 | | | | | | | | | |
| | | | | | | | 50 | 18 | | | | | | | | | |
| | | | | | | | 49 | 19 | | | | | | | | | |

COMMENTS: Hole collapsed back to 10.8 m. No water encountered.

**Hole Depth** 12m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:54:56 am - Produced with Core-GS by GeRoc

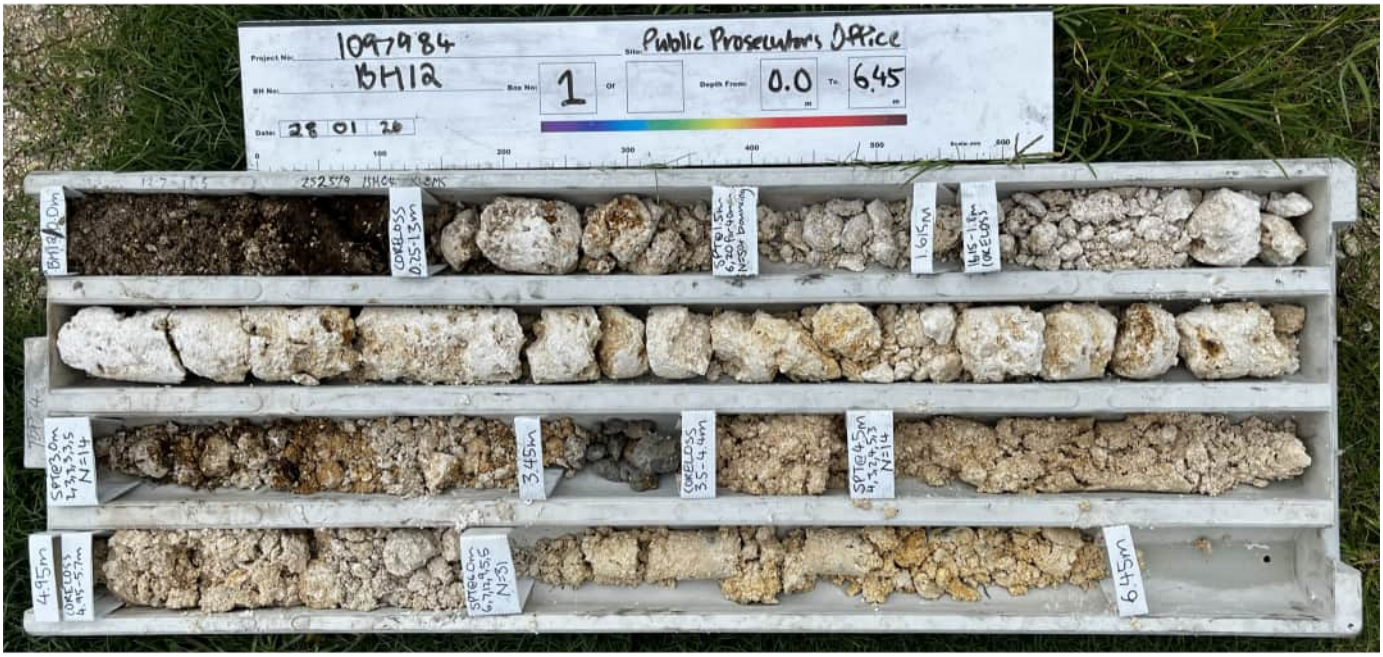
# CORE PHOTOS

BOREHOLE No.: **BH12A**

**Hole Location:** Public prosecutors office



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.31880673766133 (WGS84) -17.735620963105823<br>R.L.: 68.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 26/01/2026<br>HOLE FINISHED: 30/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-6.45m




6.45-12.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 10:54:56 am - Produced with Core-GS by GeRoc